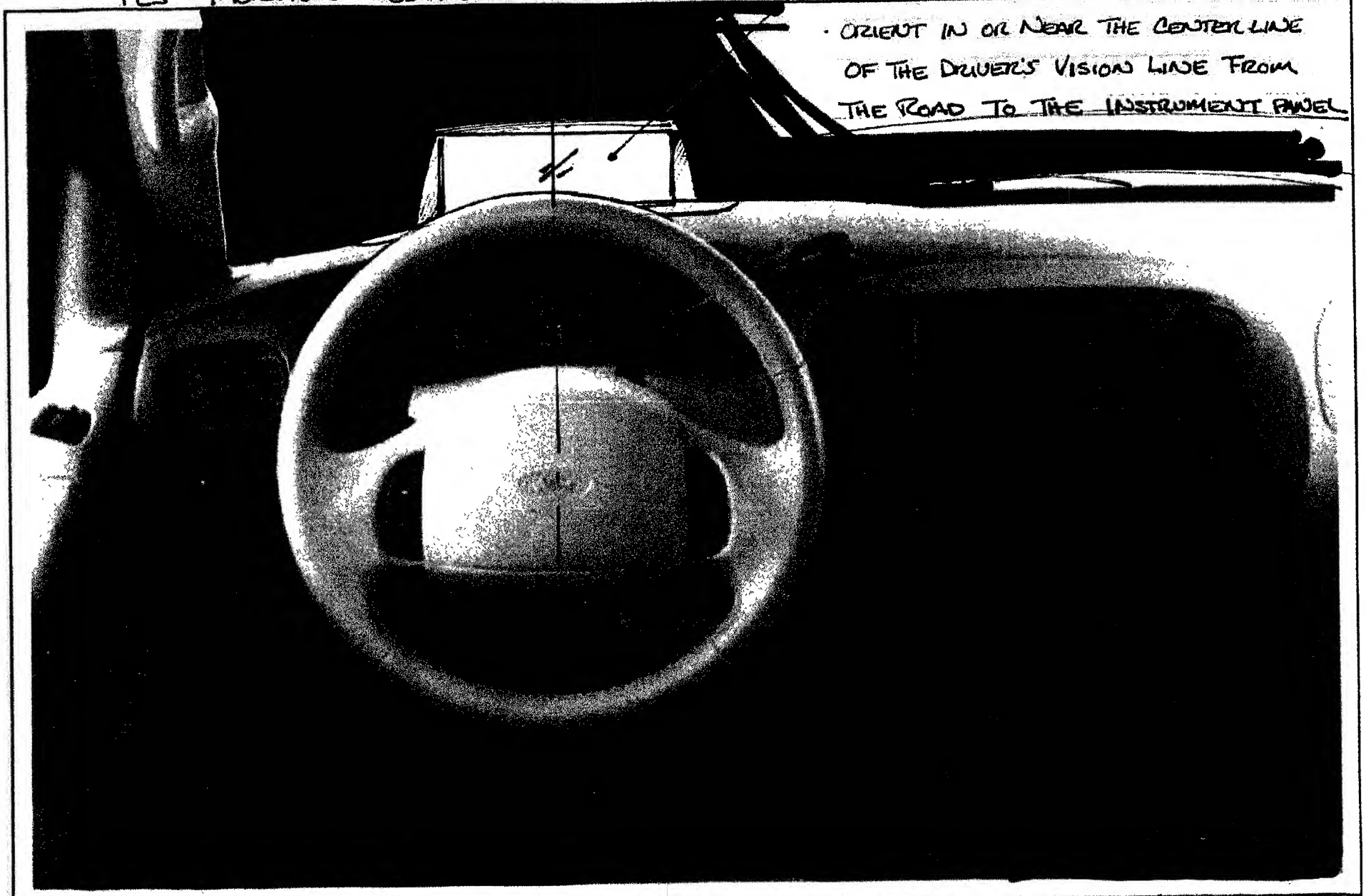
10077384.021502

FLS MONITOR POSITION - DRIVER

INLINE DASH MOUNT - VARIOUS SIZES

- ORIENT IN OR NEAR THE CENTER LINE OF THE DRIVER'S VISION LINE FROM THE ROAD TO THE INSTRUMENT PANEL



VEHICLE SPECIFIC INSTALLATION SHOWN

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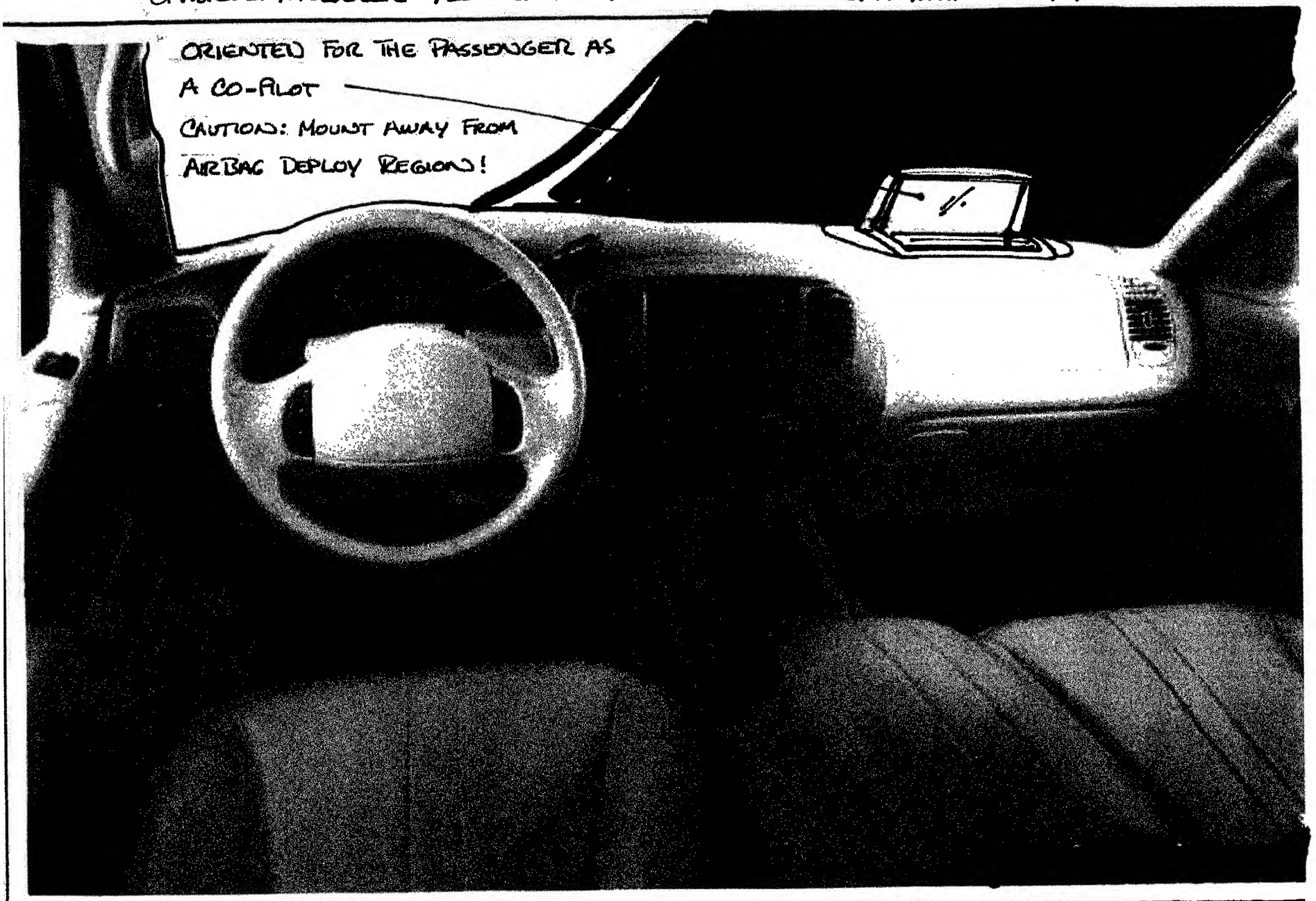
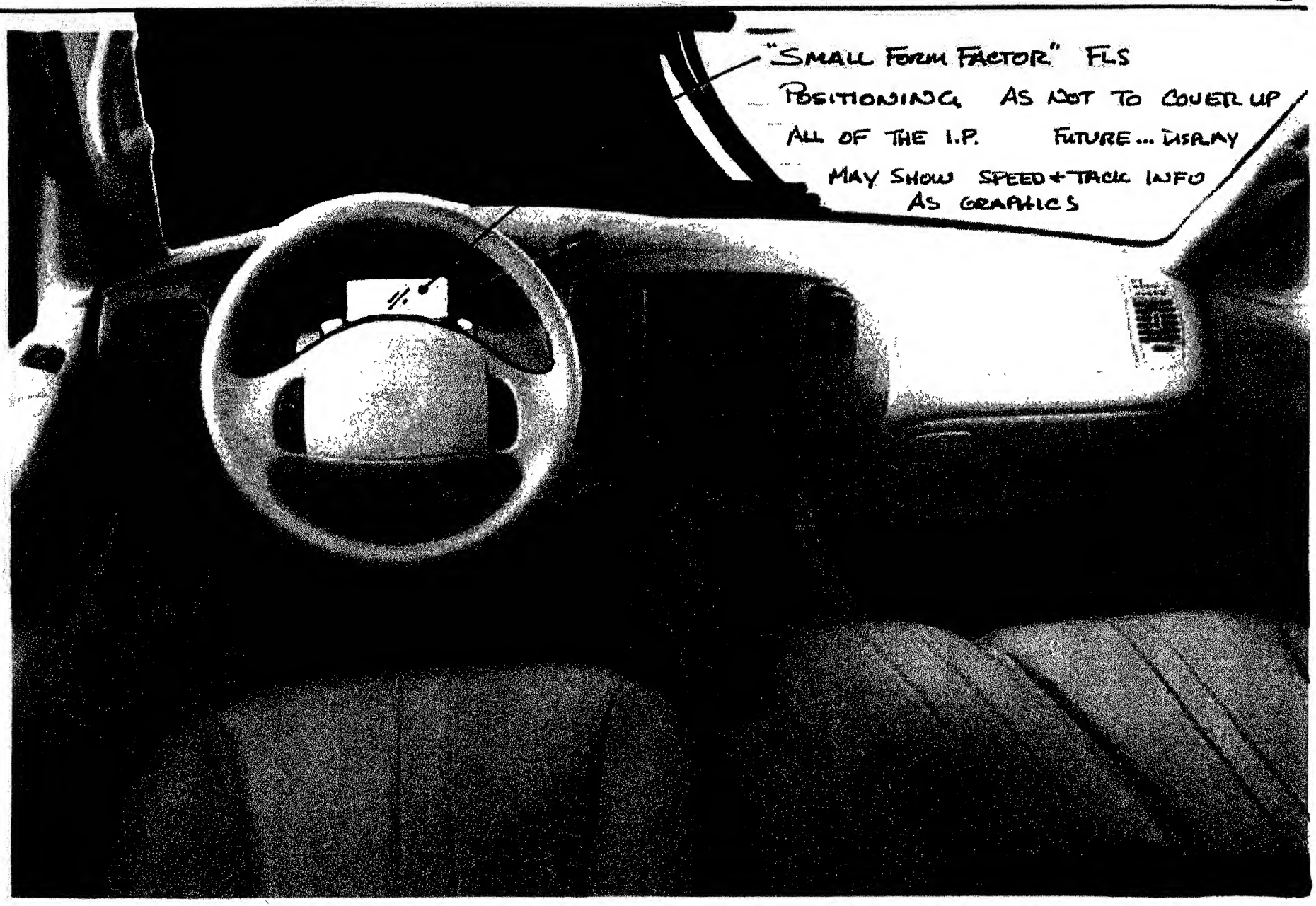
OPTIONAL PASSENGER - FLS MONITOR POSITION

OPT. WITH PRIVACY FILTER-FILM



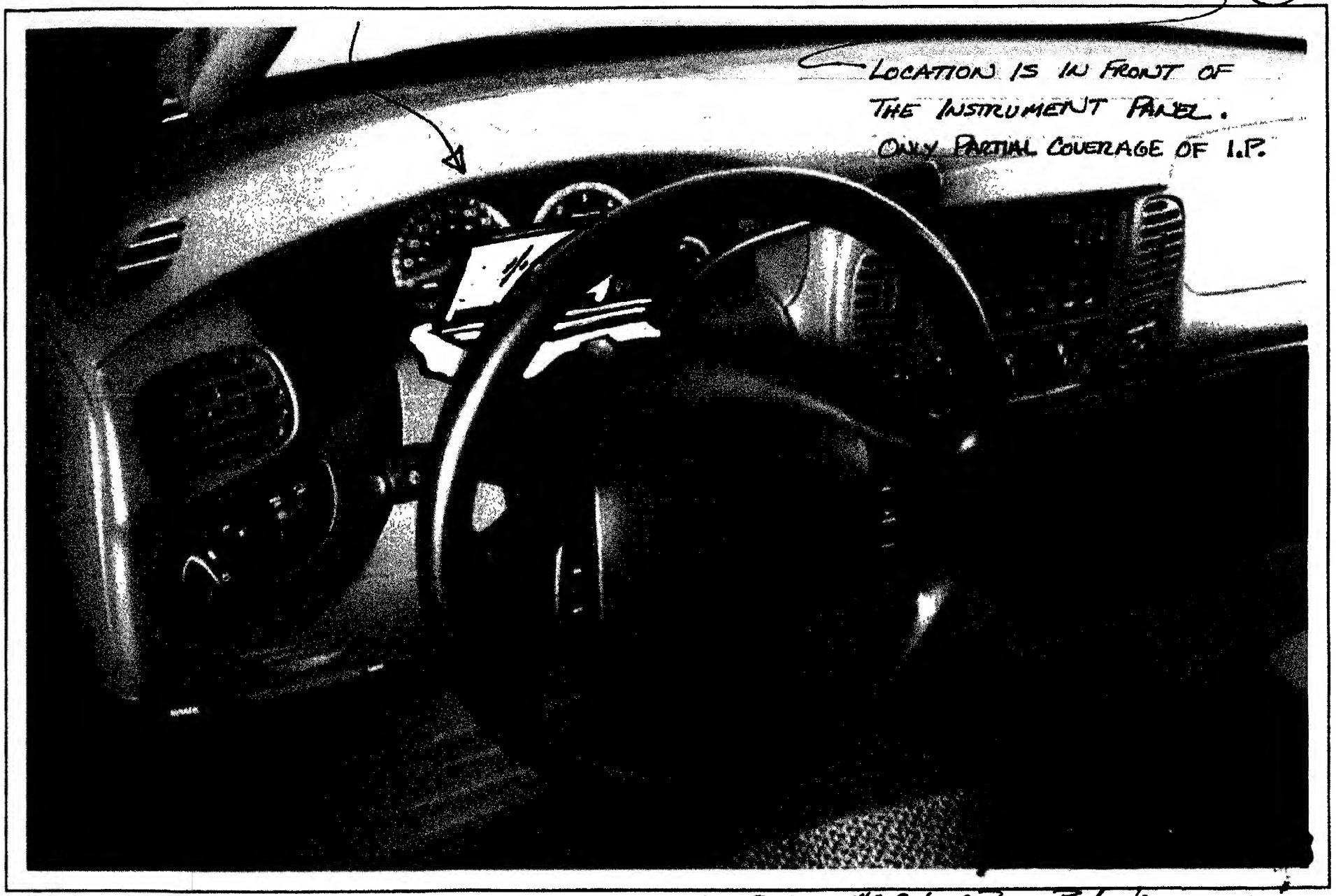
VEHICLE SPECIFIC SHOWN



VEHICLE SPECIFIC SHOWN OR UNIVERSAL POD

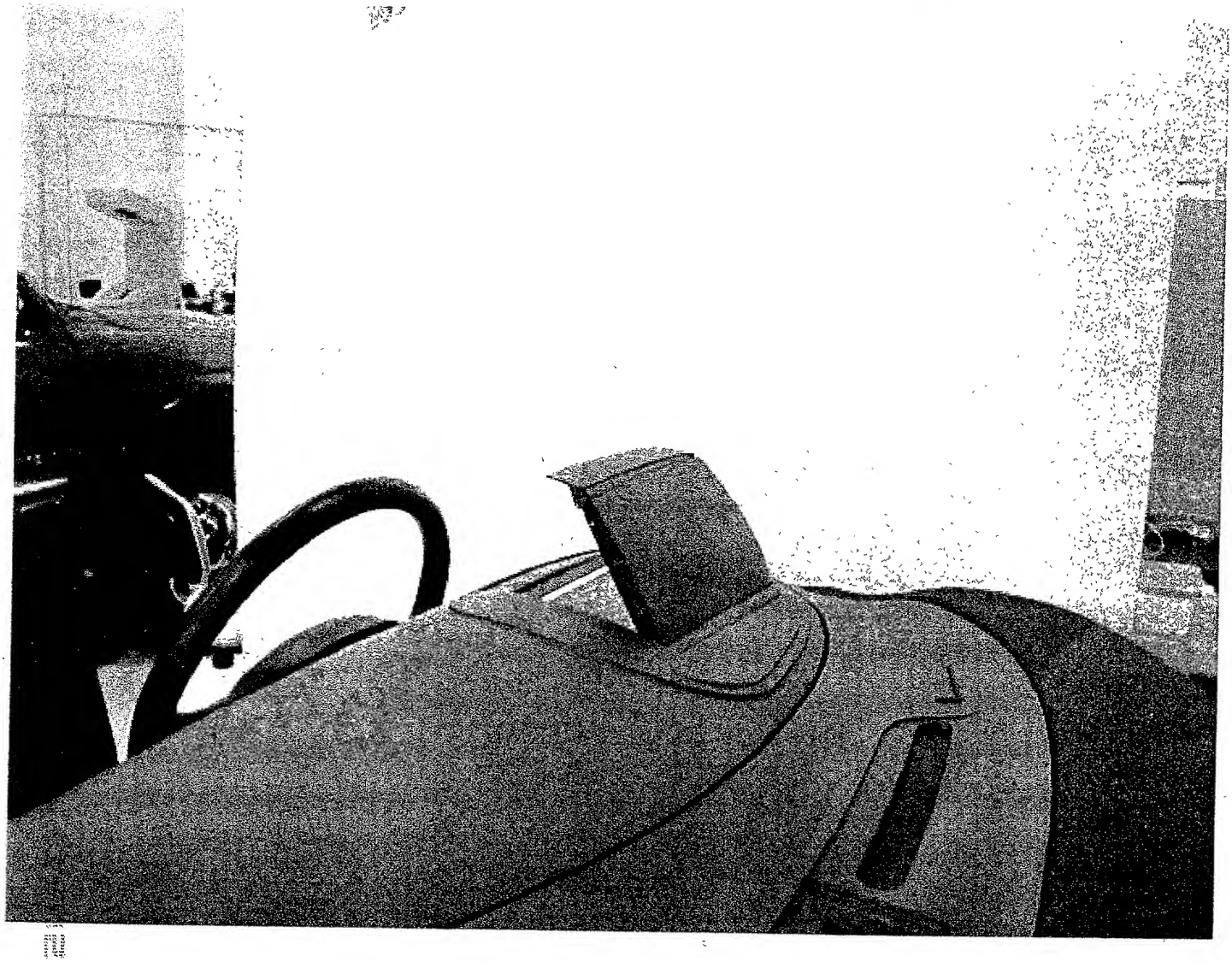
M.O. Snyder & Rosen Products 01.29.01

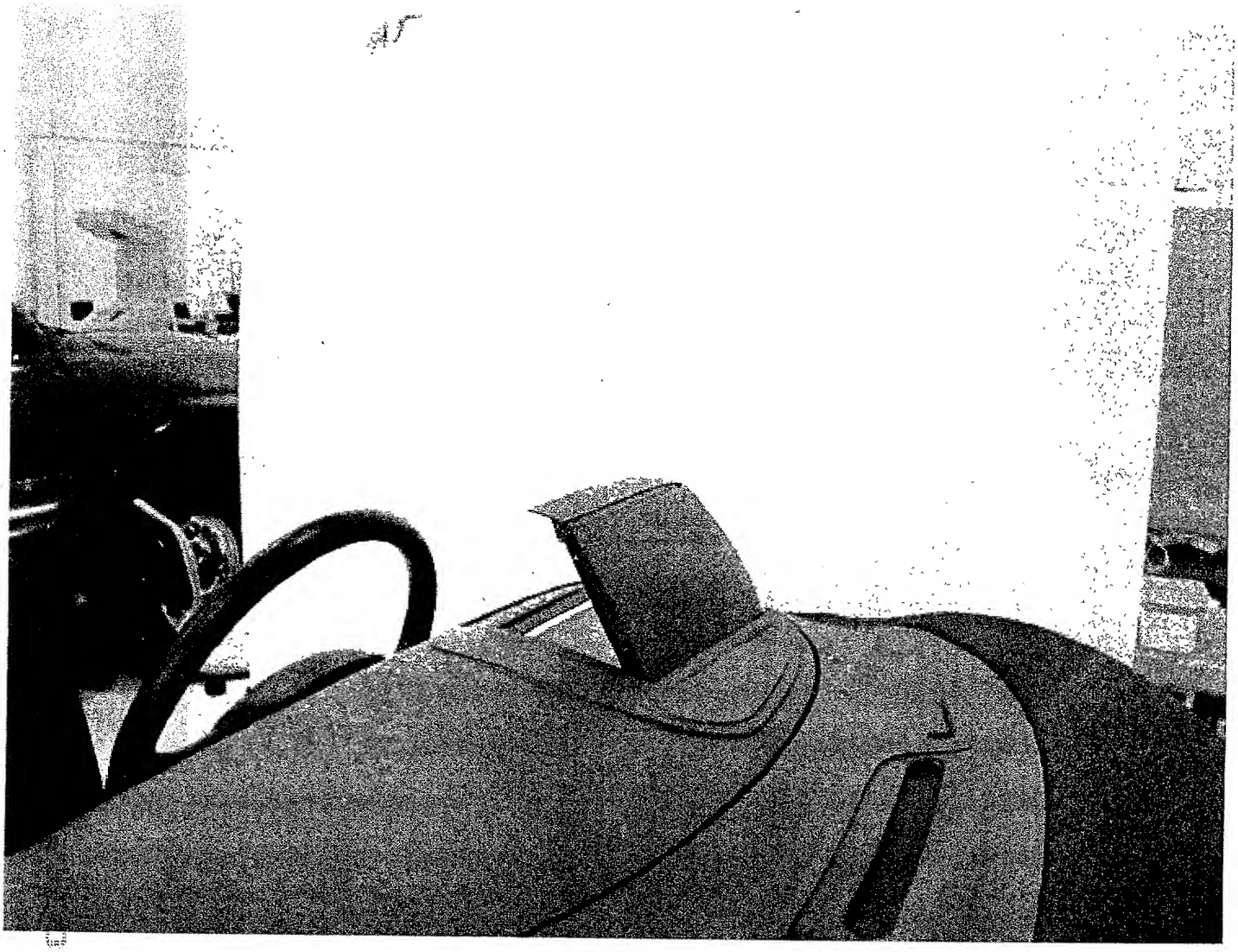
"SMALL FORM FACTOR" FLS MONITOR ... FOR APPLICATIONS WHERE THE OPTIMUM

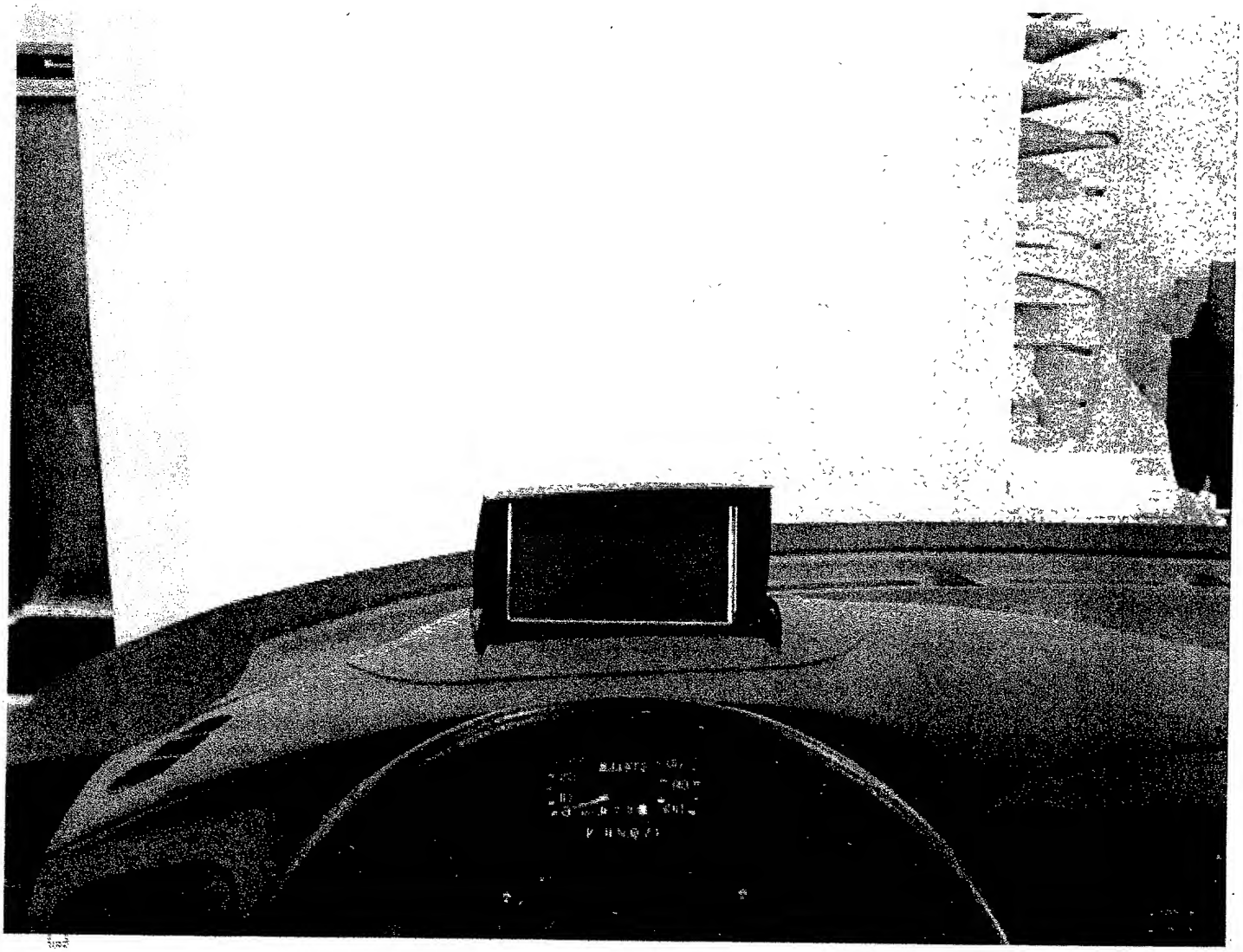


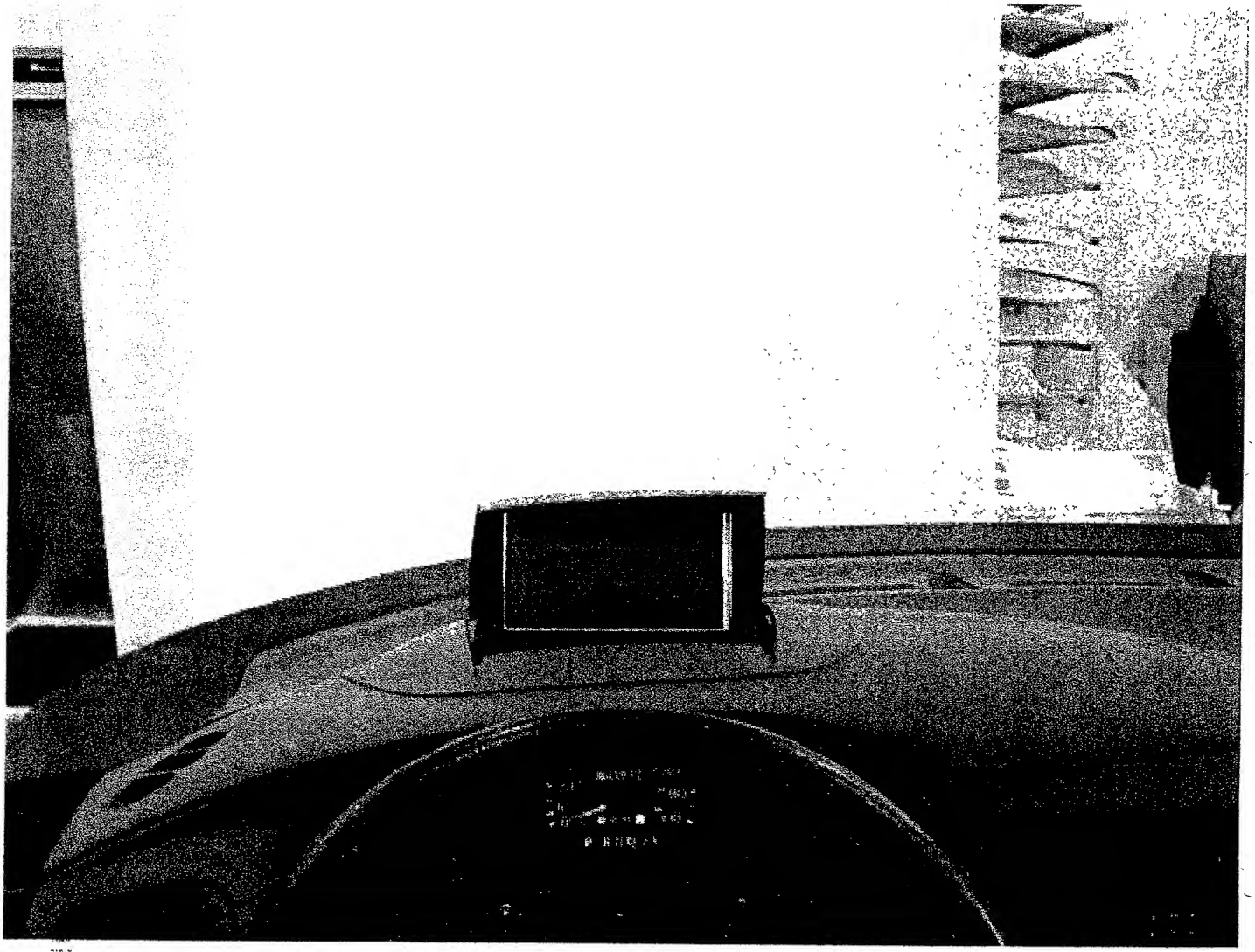
VEHICLE SPECIFIC SHOWN OR UNIVERSAL POD

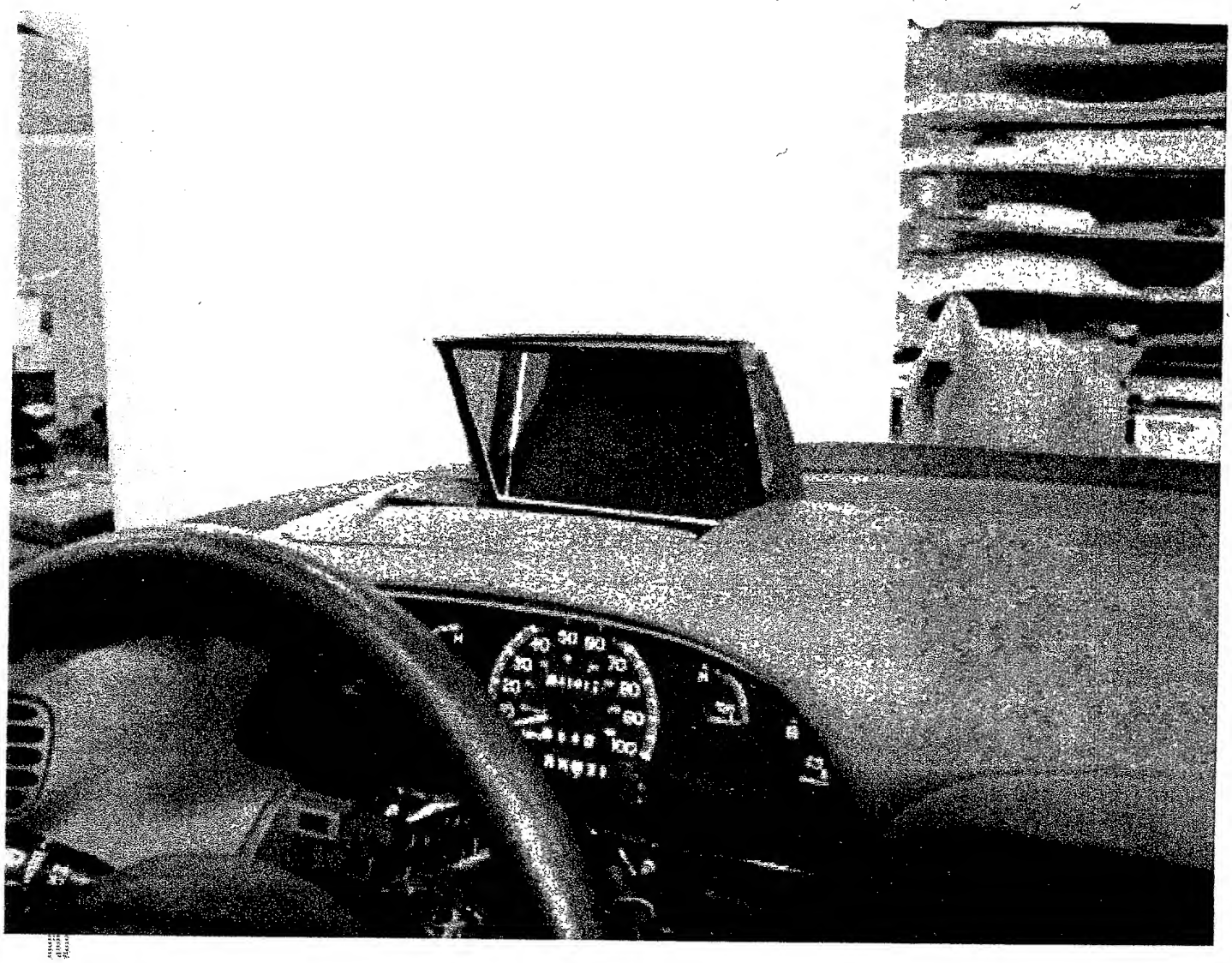
01.29.01

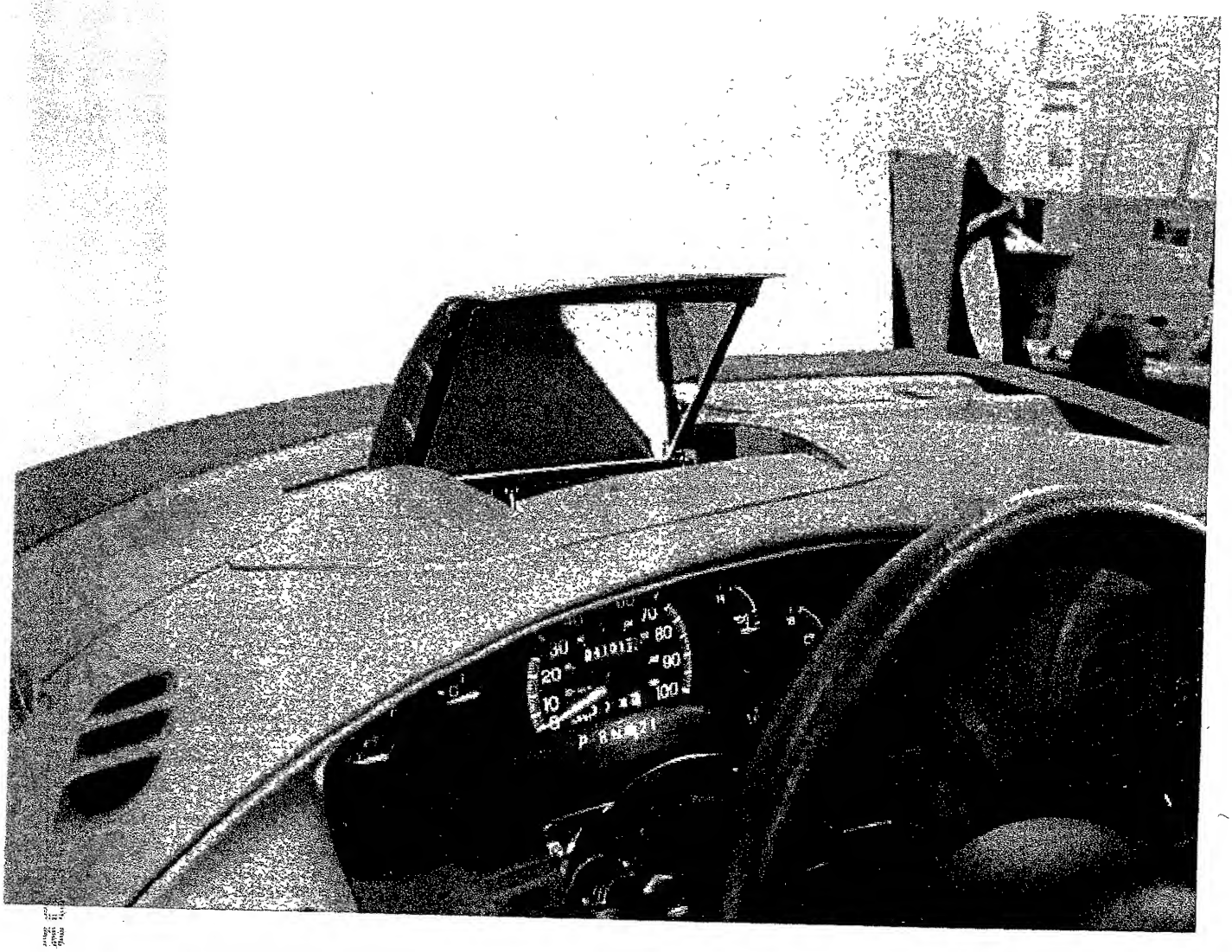








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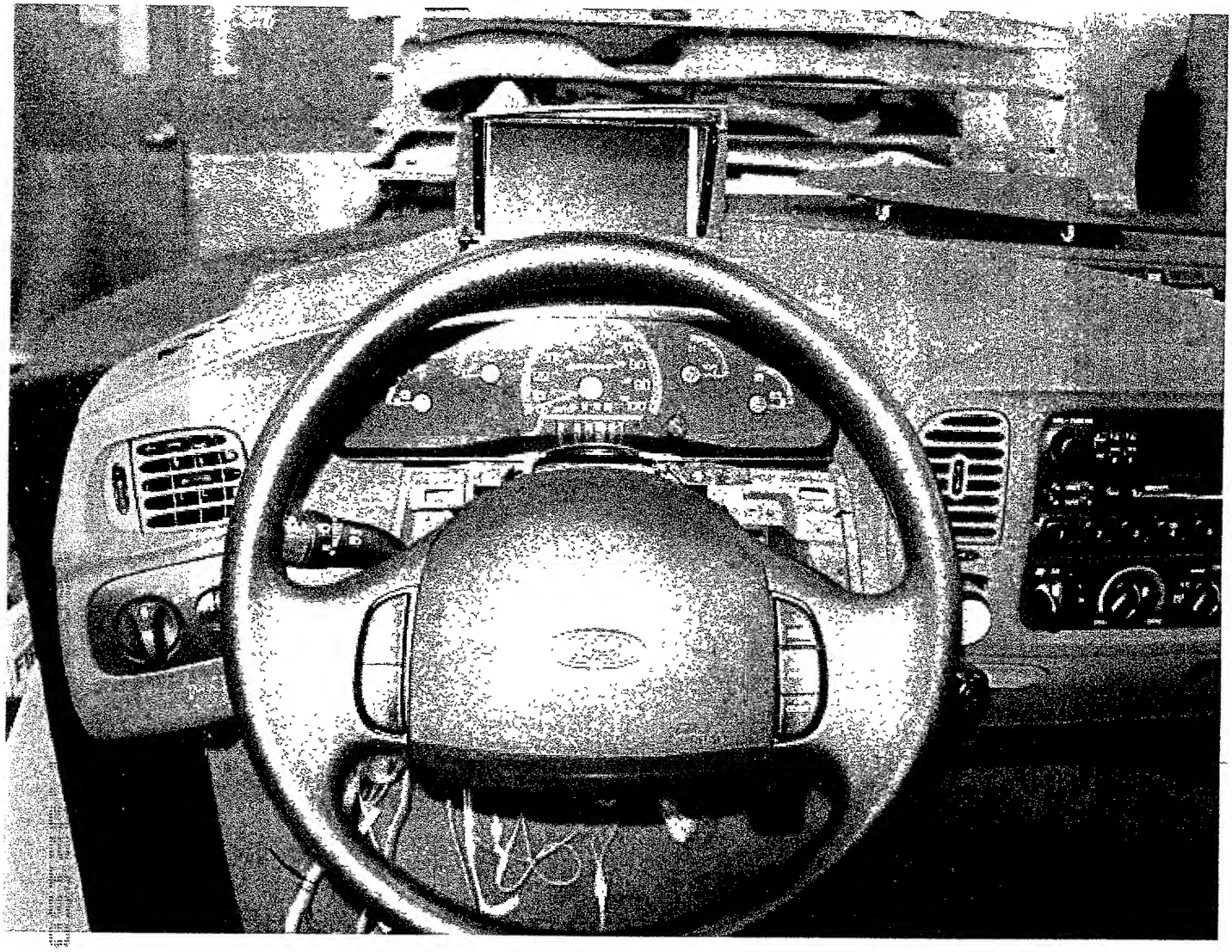
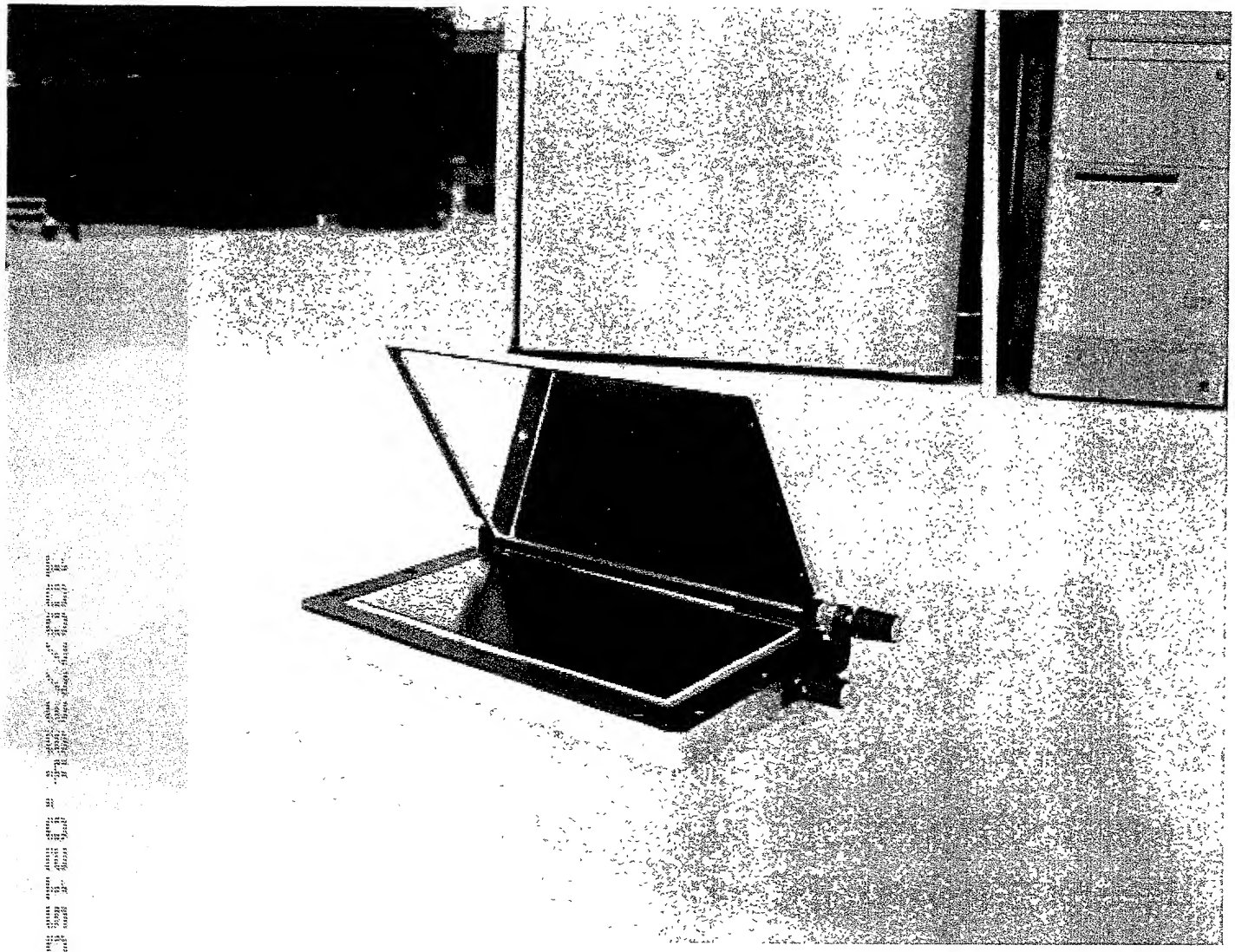
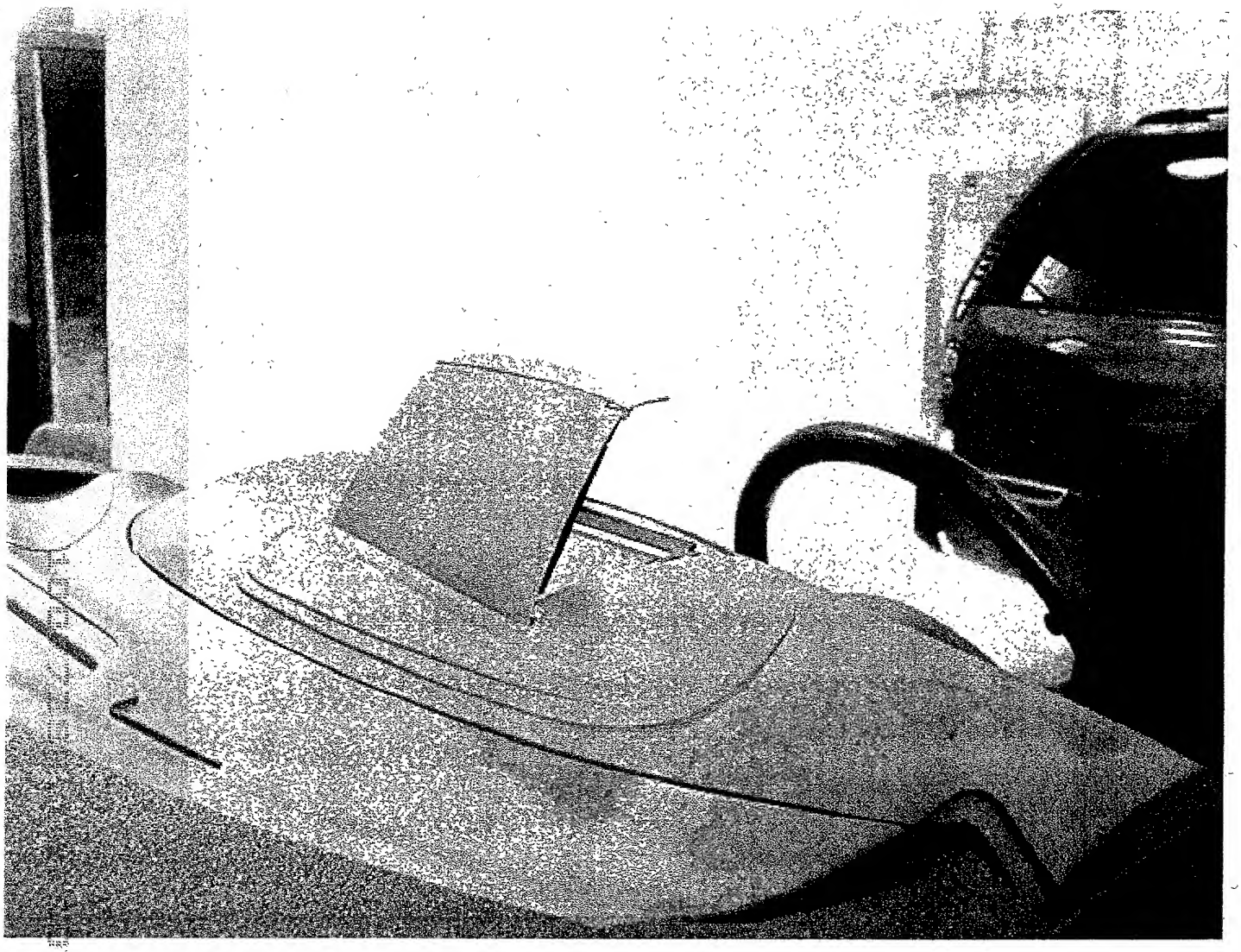
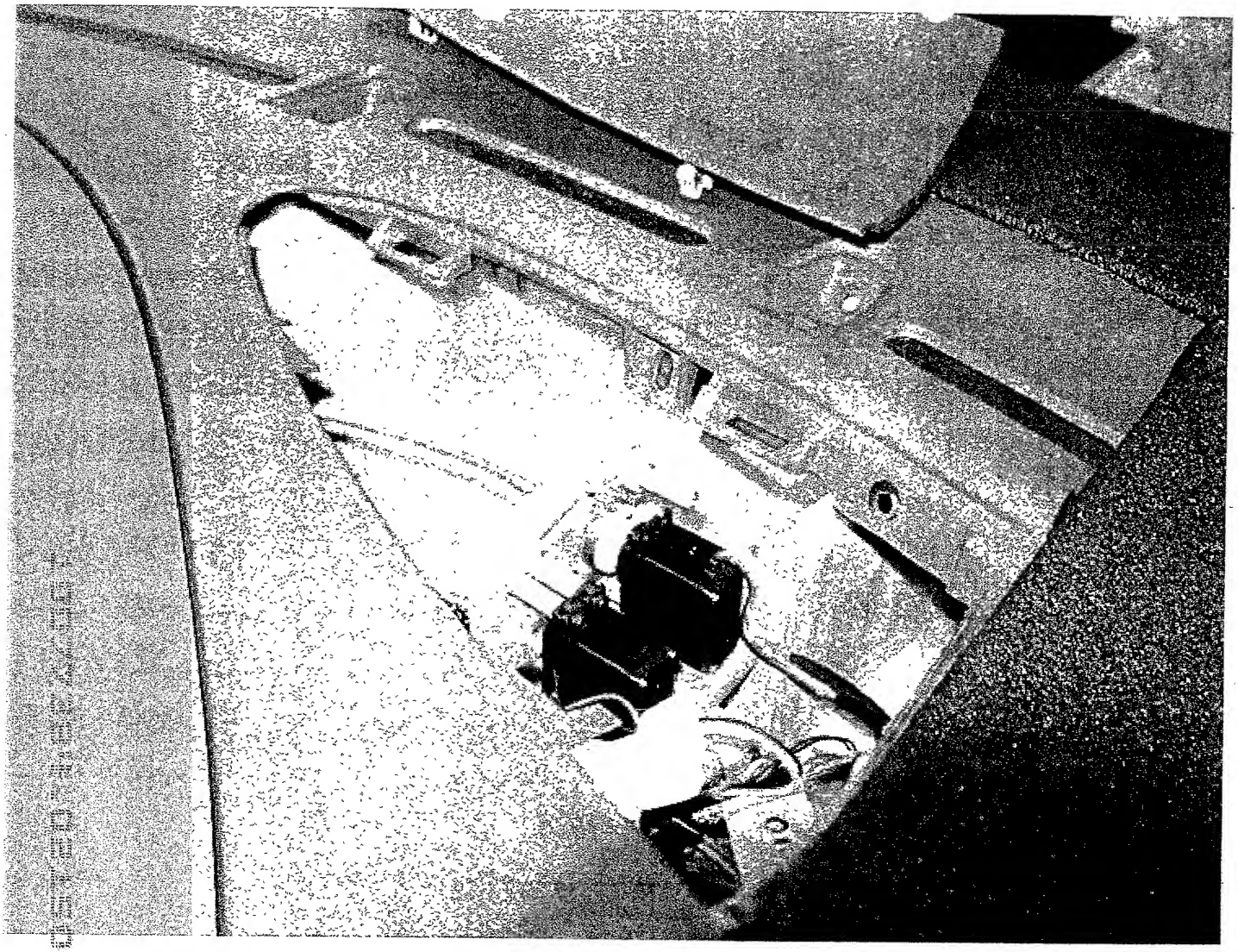
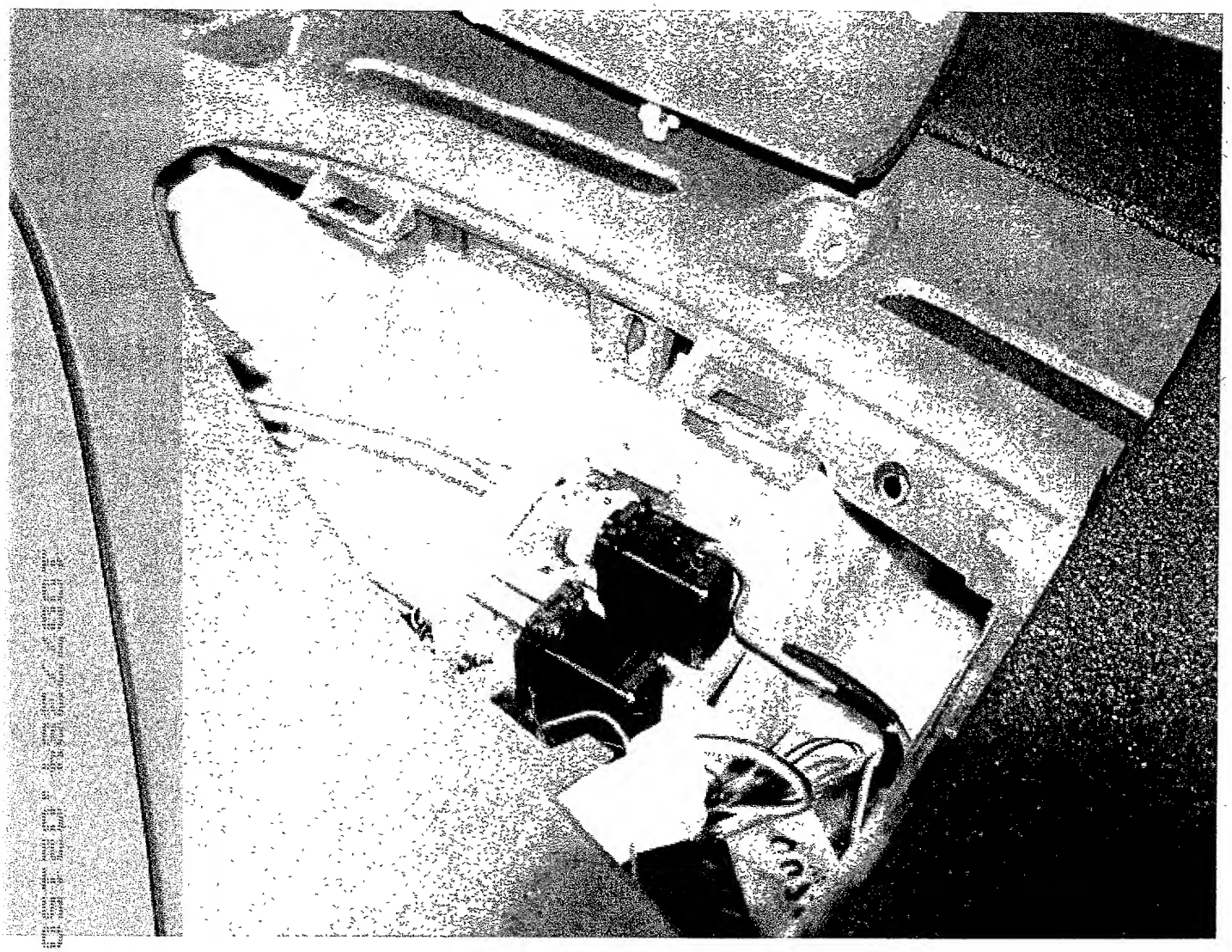
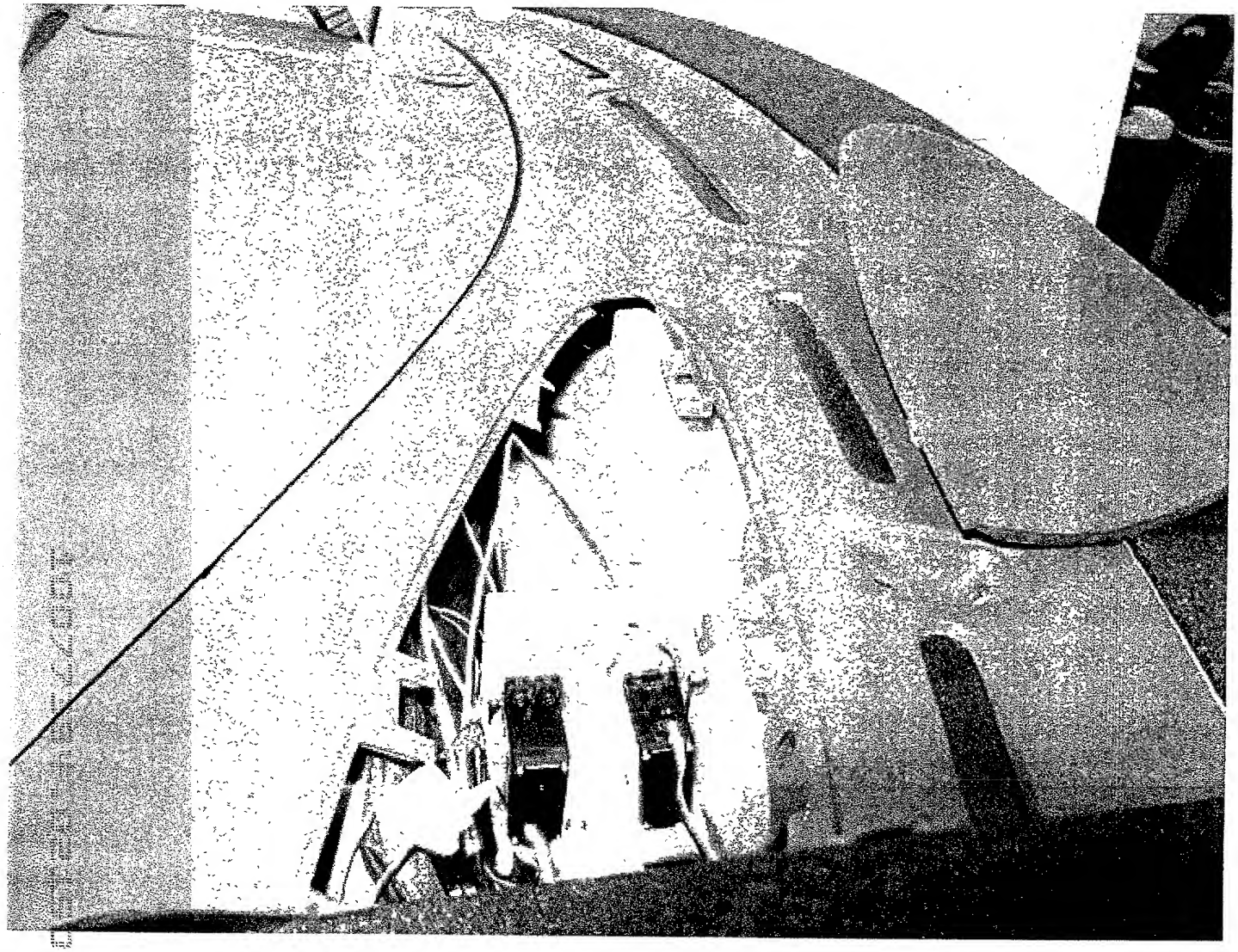


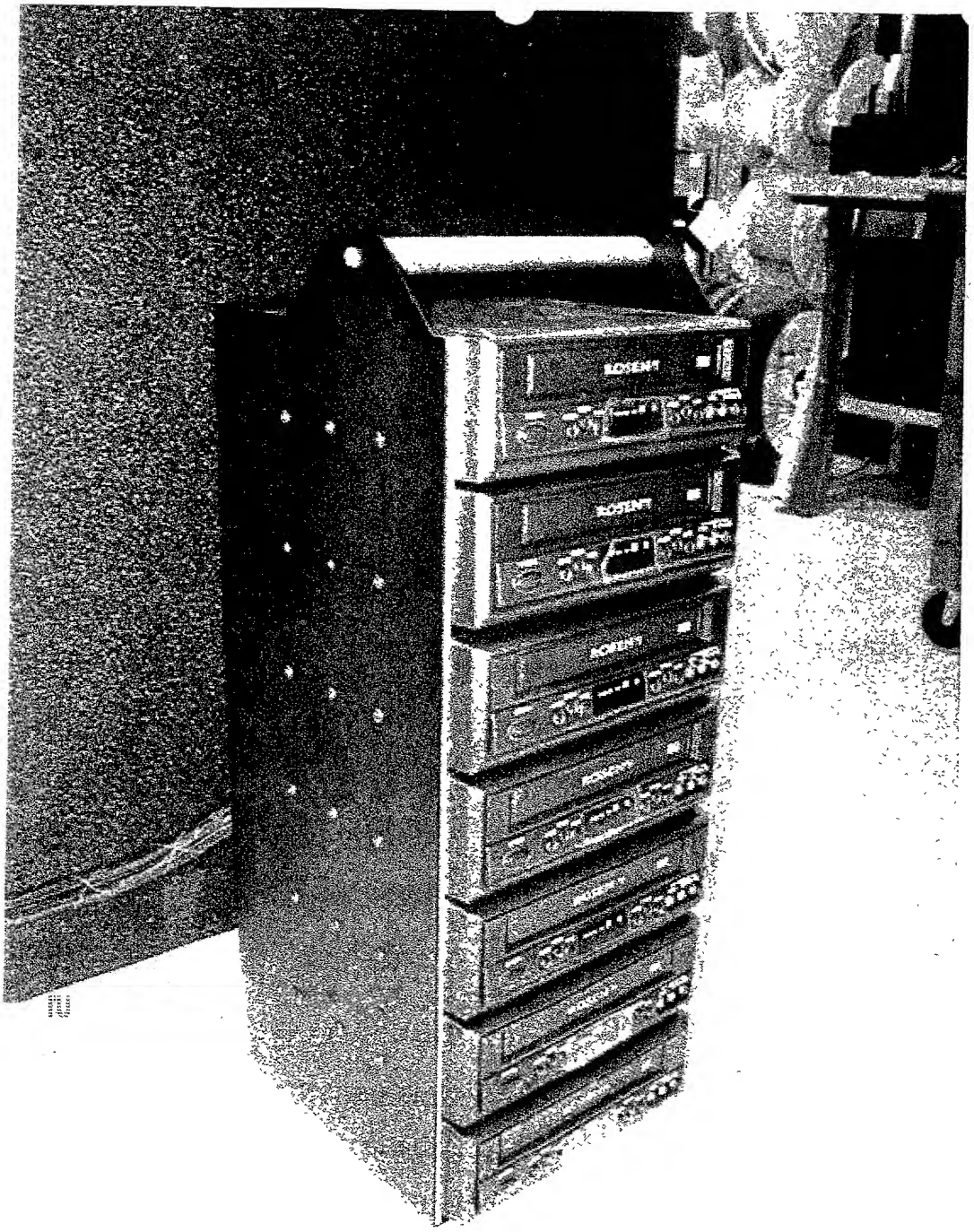






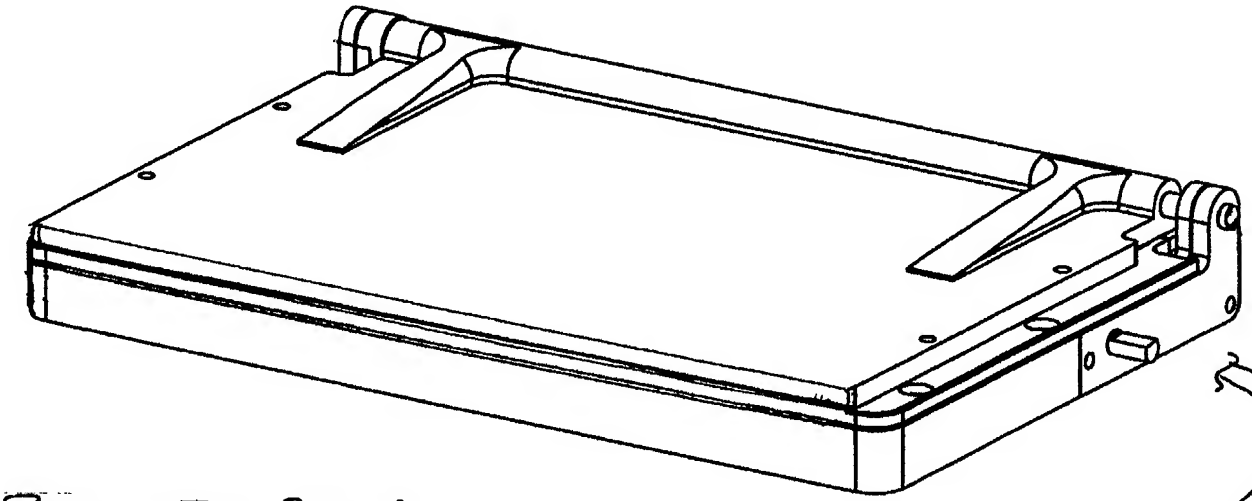






- FLS MONITOR ... SMALL COMPACT CHASSIS ASSEMBLY WITH VERSITAL MULTI-APPLICATION DESIGN
- FLS POD ... VEHICLE SPECIFIC DASH INTEGRATION COMPONENTS ... SHROUD, BASIN, COVER, HOOD(S)

(1)



FLEX CABLE

REMOTE DESIGN
- MOTOR DRIVE
- MANUAL DRIVE

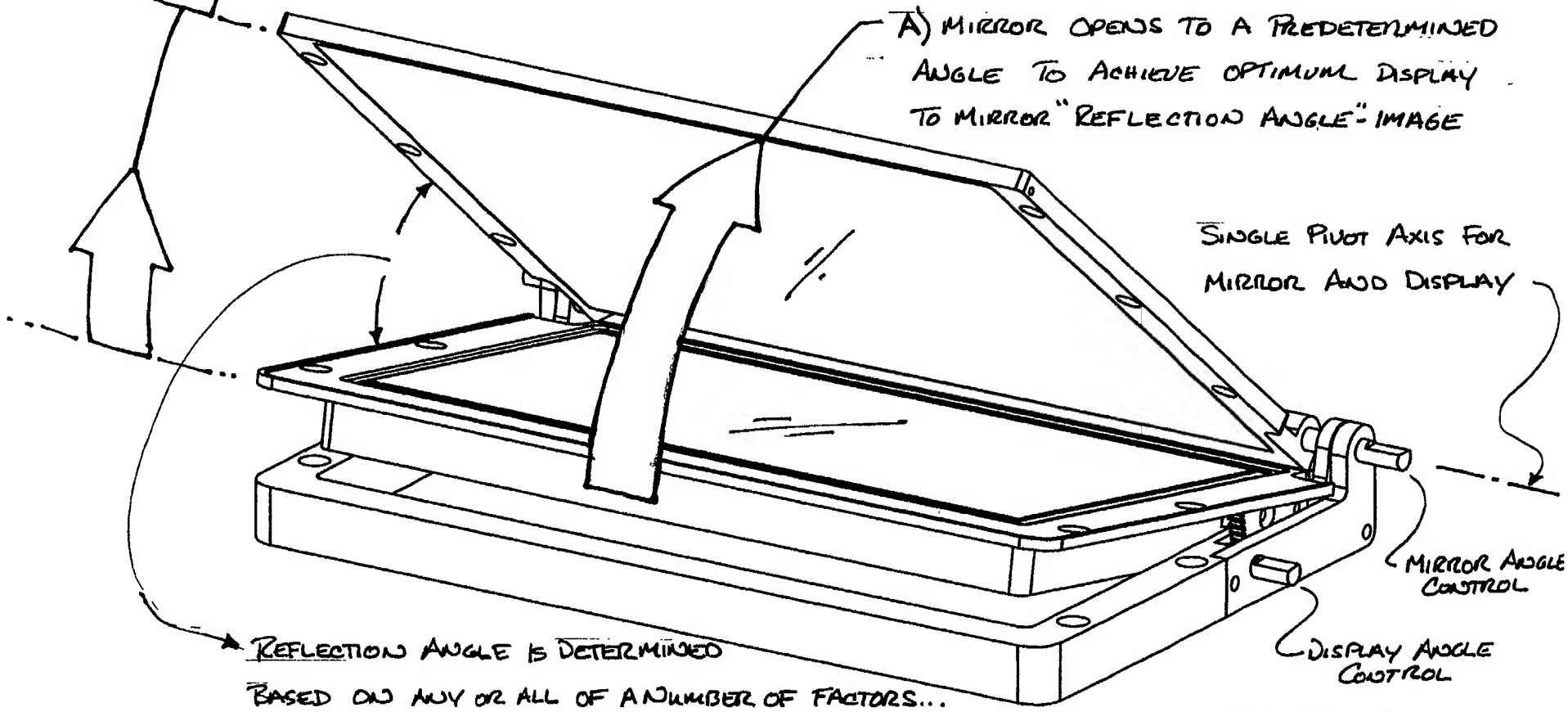
- ROSEN PRODUCTS FLS SYSTEM
  - MULTIPLE CAMERAS ... BLIND SPOTS, REAR SEAT, REAR VIEW, ETC. TRAILER VIEW
  - GPS
  - INFARED CAMERA(S)
  - E-MAIL + WEB BROWSING
  - ENTERTAINMENT - INFOTAINMENT
  - IMAGE RECORDING
  - ETC.

M.O. Snyder @ Rosen Products 01.29.01

- FLS MONITOR ... INTENT OF MOVEMENT(S) ... 2 STAGE TYPE

B) ONCE MIRROR IS OPEN ... THE MIRROR AND THE DISPLAY ARE ADJUSTED AS A SUBASSEMBLY (CONSTANT-FIXED REFLECTION ANGLE) TO POSITION THE FLS MONITOR INTO THE OPTIMUM "VIEWING ANGLE" FOR ANY SPECIFIC DRIVERS (VIEWERS) EYE POSITION IN ANY TYPE OF APPLICATION

A) MIRROR OPENS TO A PREDETERMINED ANGLE TO ACHIEVE OPTIMUM DISPLAY TO MIRROR "REFLECTION ANGLE" IMAGE



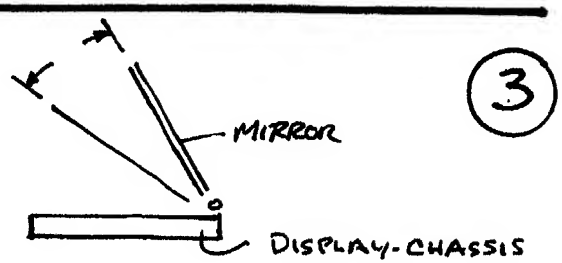
REFLECTION ANGLE IS DETERMINED BASED ON ANY OR ALL OF A NUMBER OF FACTORS...

- DISPLAY TYPE, SIZE, QUALITY
- MIRROR TYPE, SIZE, QUALITY, SHAPE, ORIENTATION/POSITION RELATIVE TO THE DISPLAY
- ANY LIGHT &/OR IMAGE ENHANCING/CONTROLLING FILMS USED

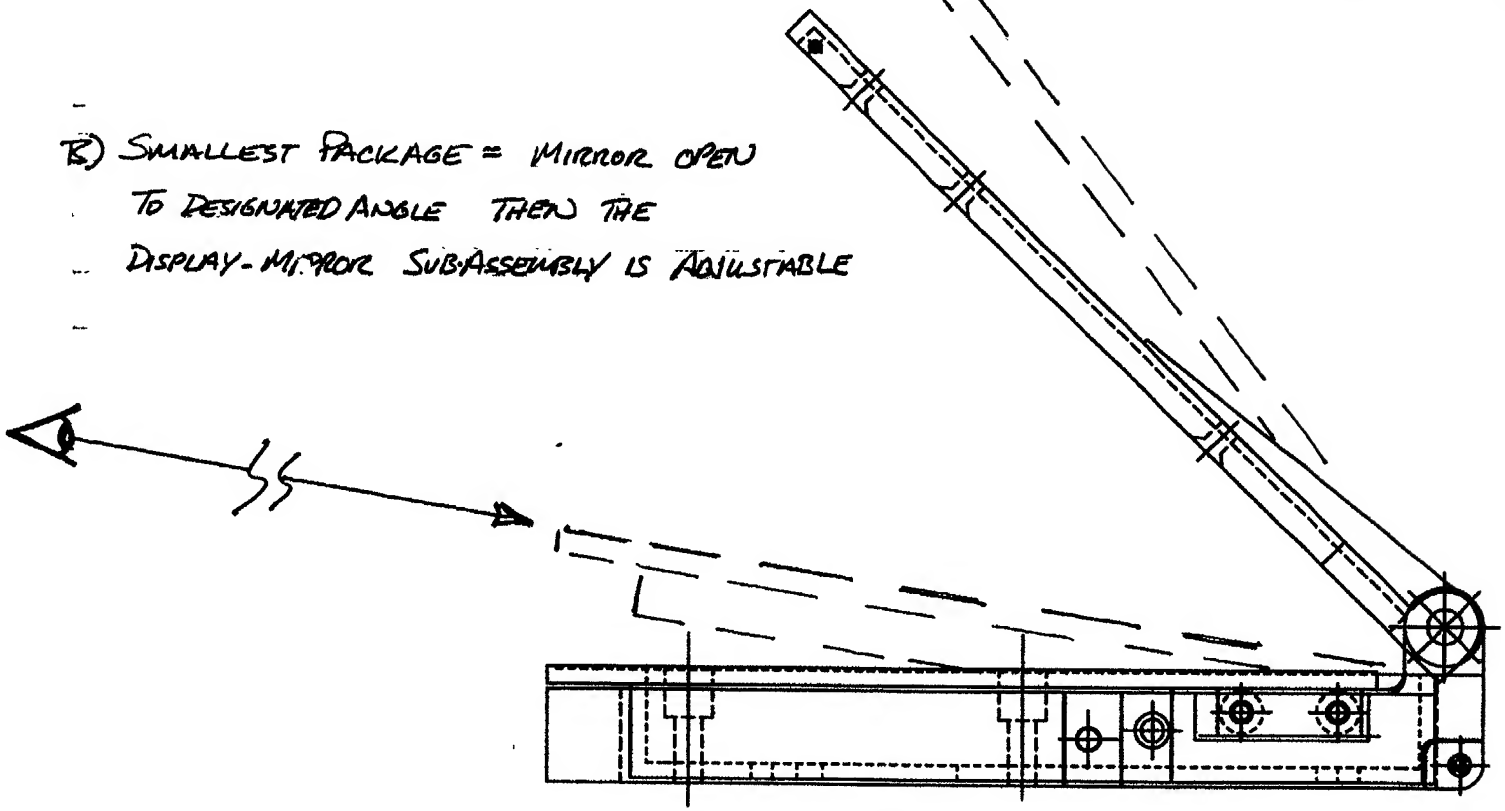
Rosen Products 01.29.01

• FLS MONITOR ... MOVEMENT VARIATIONS

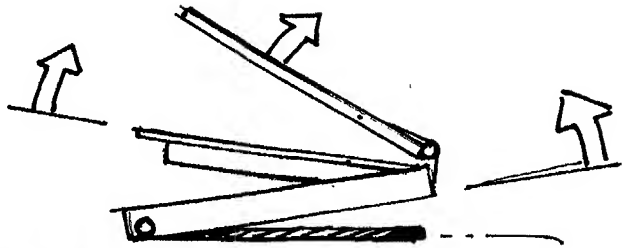
A) SIMPLEST DESIGN = FIXED DISPLAY WITH ADJUSTABLE MIRROR
- MIRROR IS ADJUSTED FOR BEST VIEWING ANGLE BY USER



B) SMALLEST PACKAGE = MIRROR OPEN TO DESIGNATED ANGLE THEN THE DISPLAY-MIRROR SUB-ASSEMBLY IS ADJUSTABLE



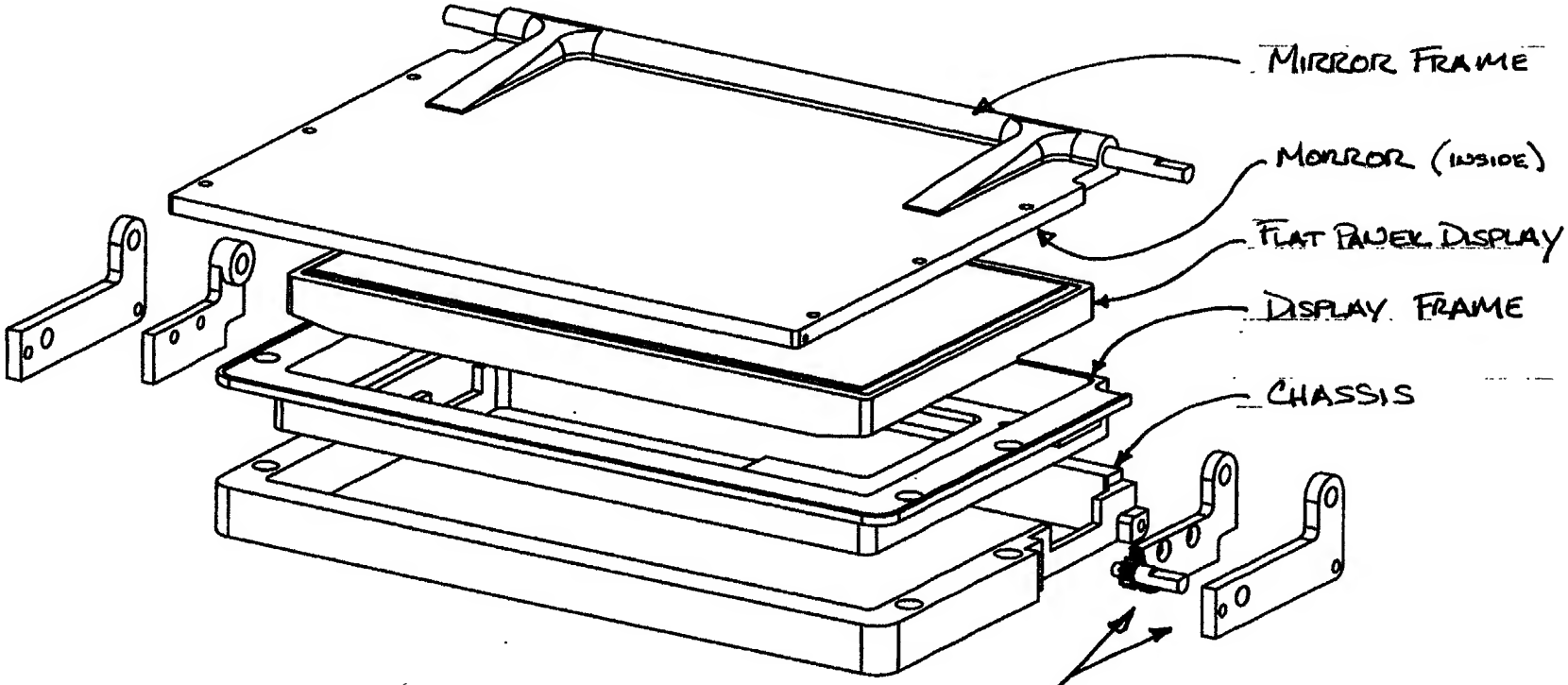
C) HIGH LIFT CHASSIS OPTION = MIRROR, DISPLAY, AND CHASSIS ARE ADJUSTABLE TO HELP POSITION THE MIRROR INTO THE OPTIMUM POSITION IN THE FEILD OF VIEW



- FLS (FORWARD LOOKING SAFETY) MONITOR ... COMPONENTS ... 2 STAGE TYPE

2nd GENERATION DEVELOPMENTAL PROTOTYPE - CONCEPT MODEL

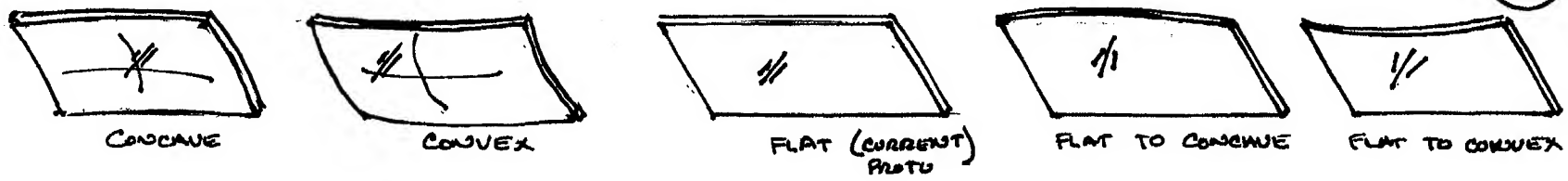
AS MACHINED AND ASSEMBLED 01.19.01 FOR CONTINUED DEVELOPMENT.



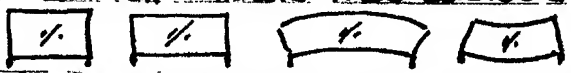
NOTE: ACTUAL DRIVE MECHANISM &/OR DRIVETRAIN MECHANISM MAY BE FULLY INTEGRATED INTO THE MONITOR, A COMBINATION OF PART INTEGRATED AND PART REMOTE, OR COMPLETELY REMOTE. THE DRIVE CAN BE ANY TYPE LIKE ... SPRING LOADED, ELECTRIC MOTOR, PNEUMATIC, MANUAL .... BASED ON PRICE POINTS AND APPLICATION(S).

M.O. Snyder @ Rosen Products 01.29.01

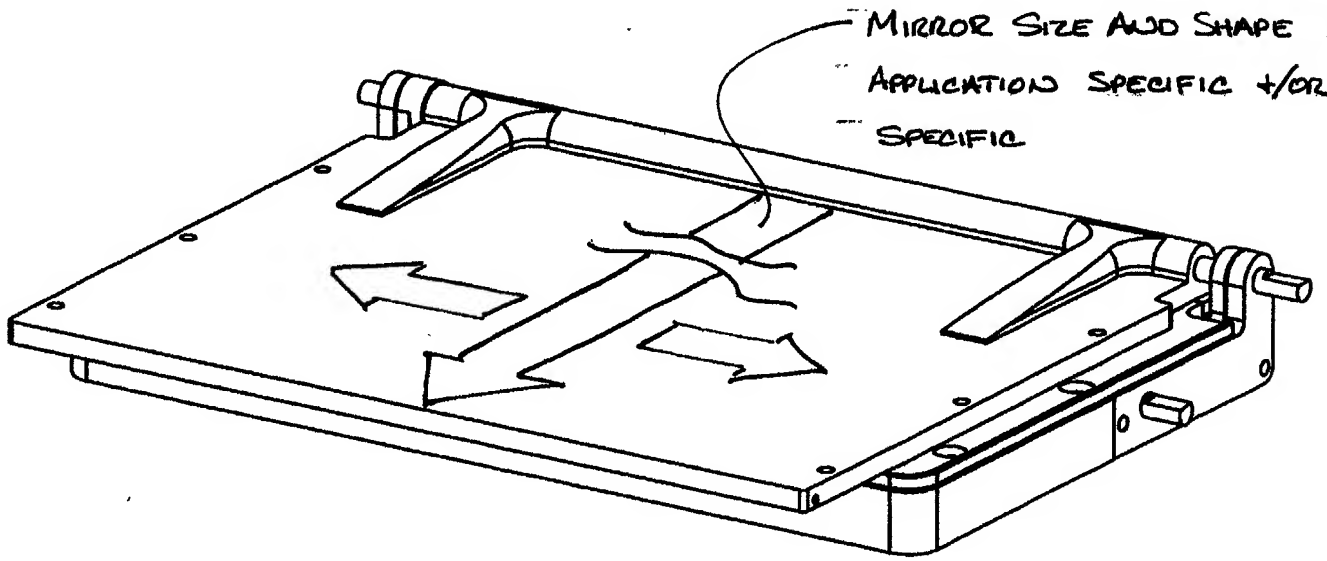
NOTE: POSSIBLE MIRROR FACE CONTOURS STILL BEING RESEARCHED + DEVELOPED



* NOTE: ACTUAL MIRROR PERIMETER SHAPE MAY VARY AS WELL PER UNIQUE APPLICATIONS - WITH OR WITHOUT A COMPLEX MIRROR FACE CONTOUR. TYPICAL GOAL IS TO END UP WITH A CLEAN + TRUE REFLECTIVE IMAGE



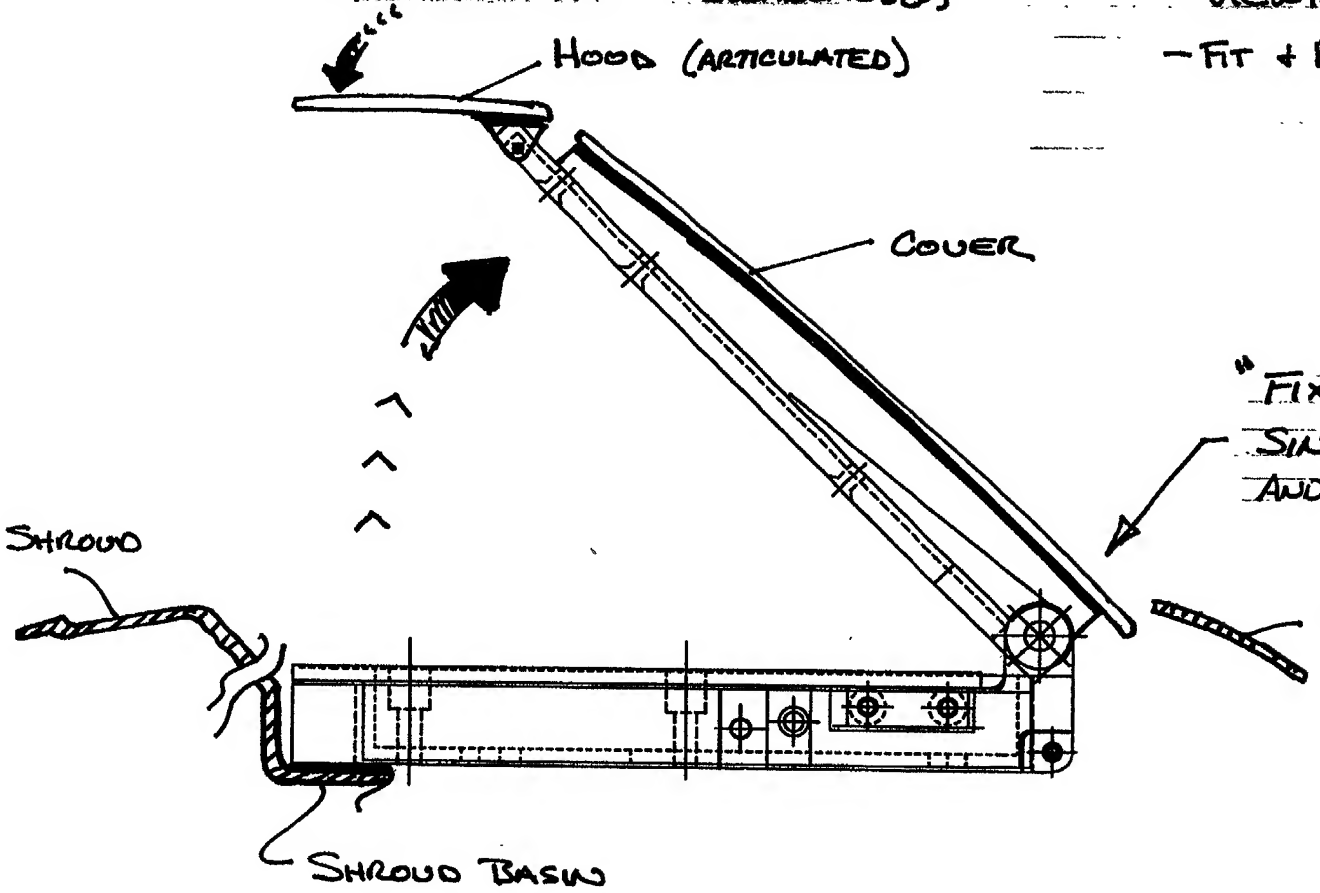
* THE REASONING FOR EXPERIMENTING WITH MIRROR FACE CONTOURS WOULD BE TO SEE IF A LARGER MIRROR COULD BE USED WITH A SMALLER DISPLAY.



OFLS MONITOR ... MIRROR VARIATIONS THAT MAY BE POSSIBLE

- FLS POD ... HOOD, SHROUD, COVER, BASIN (SHROUD MAY HAVE INTEGRATED BASIN, TBD)

CHALLENGES
- POSITIONING ... CLOSED + OPEN
- MOUNTING
- ARTICULATION + CLEARENCE(S)
- STRAY LIGHT
- REFLECTIVE ANGLES
- VIEWING ANGLES
- FIT + FINISH ... INTEGRATED LOOK
... FLOATING POD LOOK



"FIXED COVER" WITH SINGLE PIVOT SHOWN AND APPLIED TO 01.10.01 MODEL

• FLS Hood + Cover Configurations...YTD

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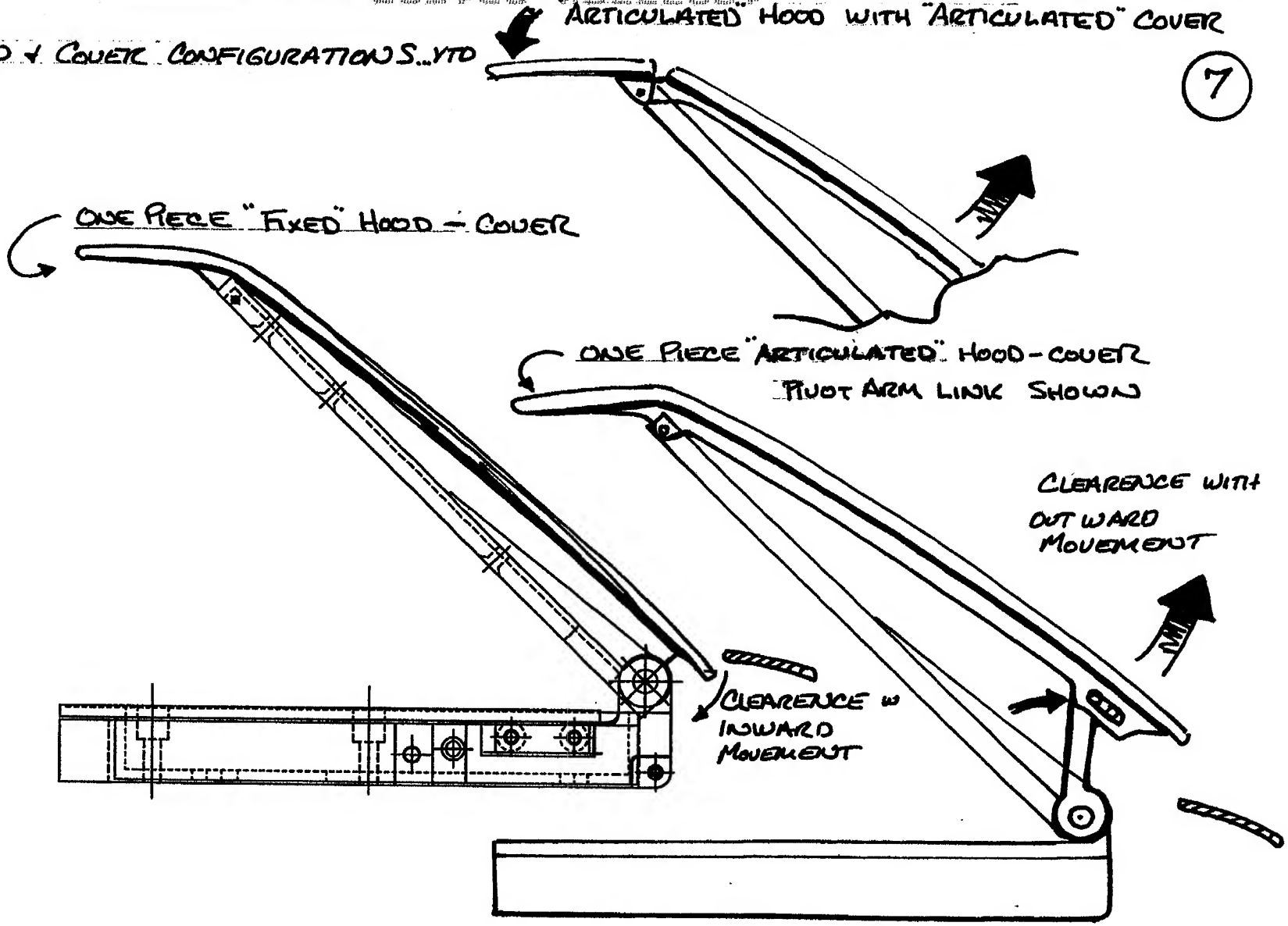
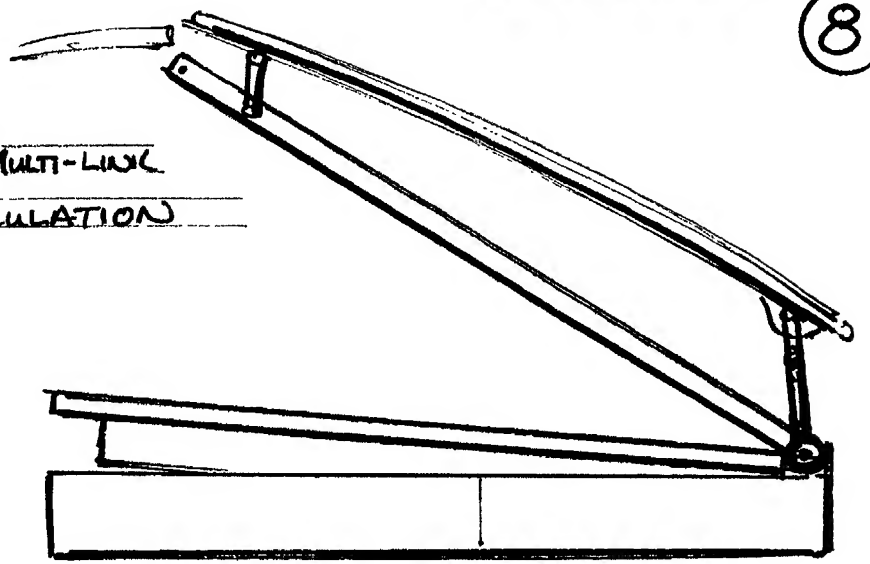
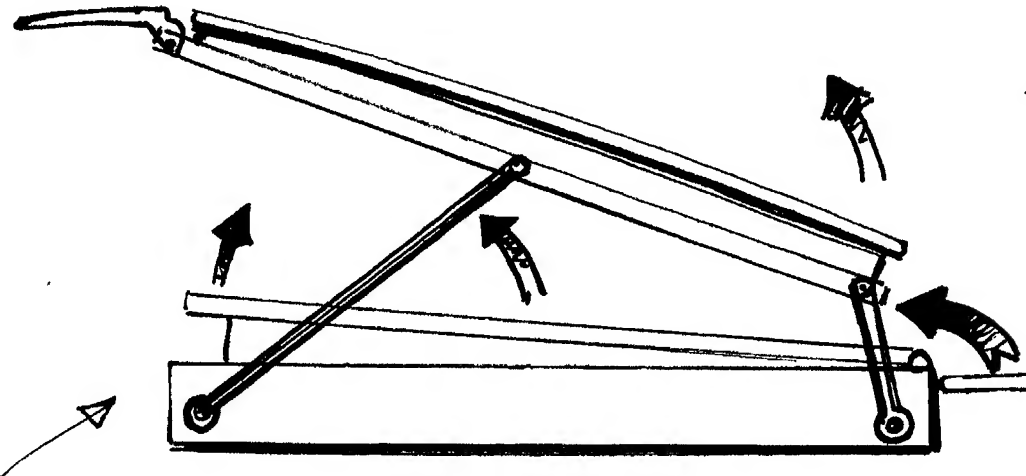


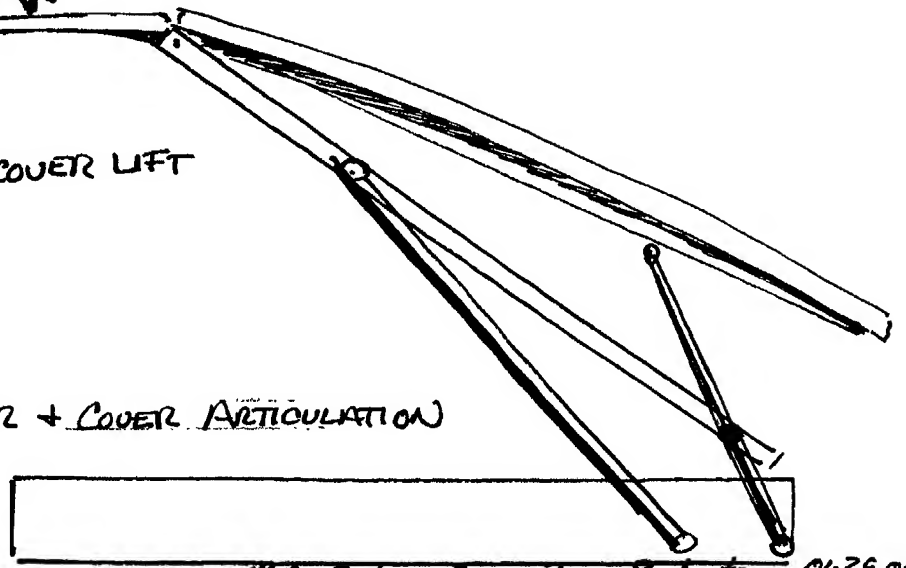
o FLS .... Potential Multi-Link Component Orientation To Better Fit Vehicle Specific Applications



Single Pivot Display + Mirror With Multi-Link Cover Articulation



Single Pivot Display With Multi-Link Mirror-Cover Lift

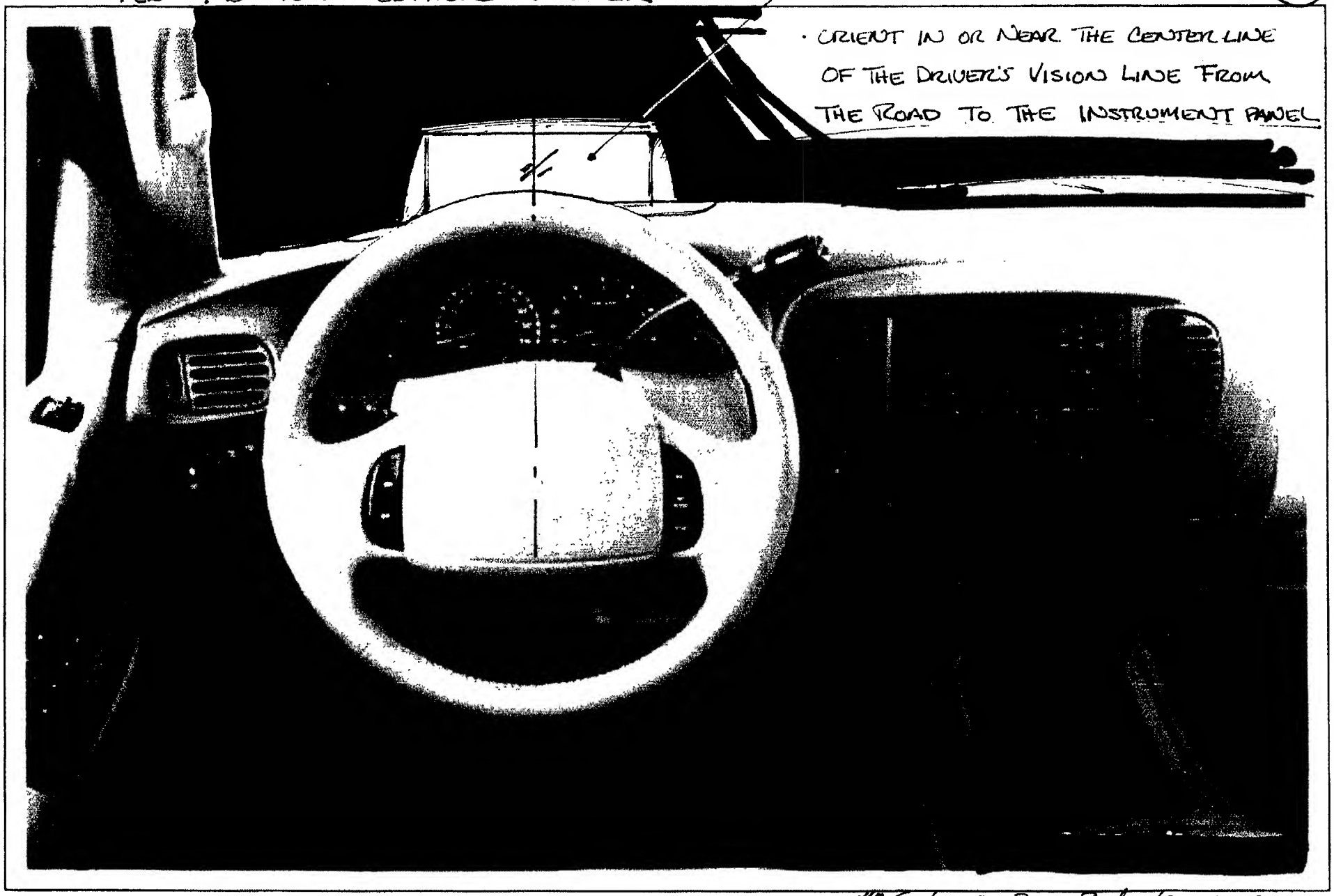


Uneven Rate Multi-Link Mirror + Cover Articulation

 01.29.01

FLS MONITOR POSITION - DRIVER

- INLINE DASH MOUNT - VARIOUS SIZES



VEHICLE SPECIFIC INSTALLATION SHOWN

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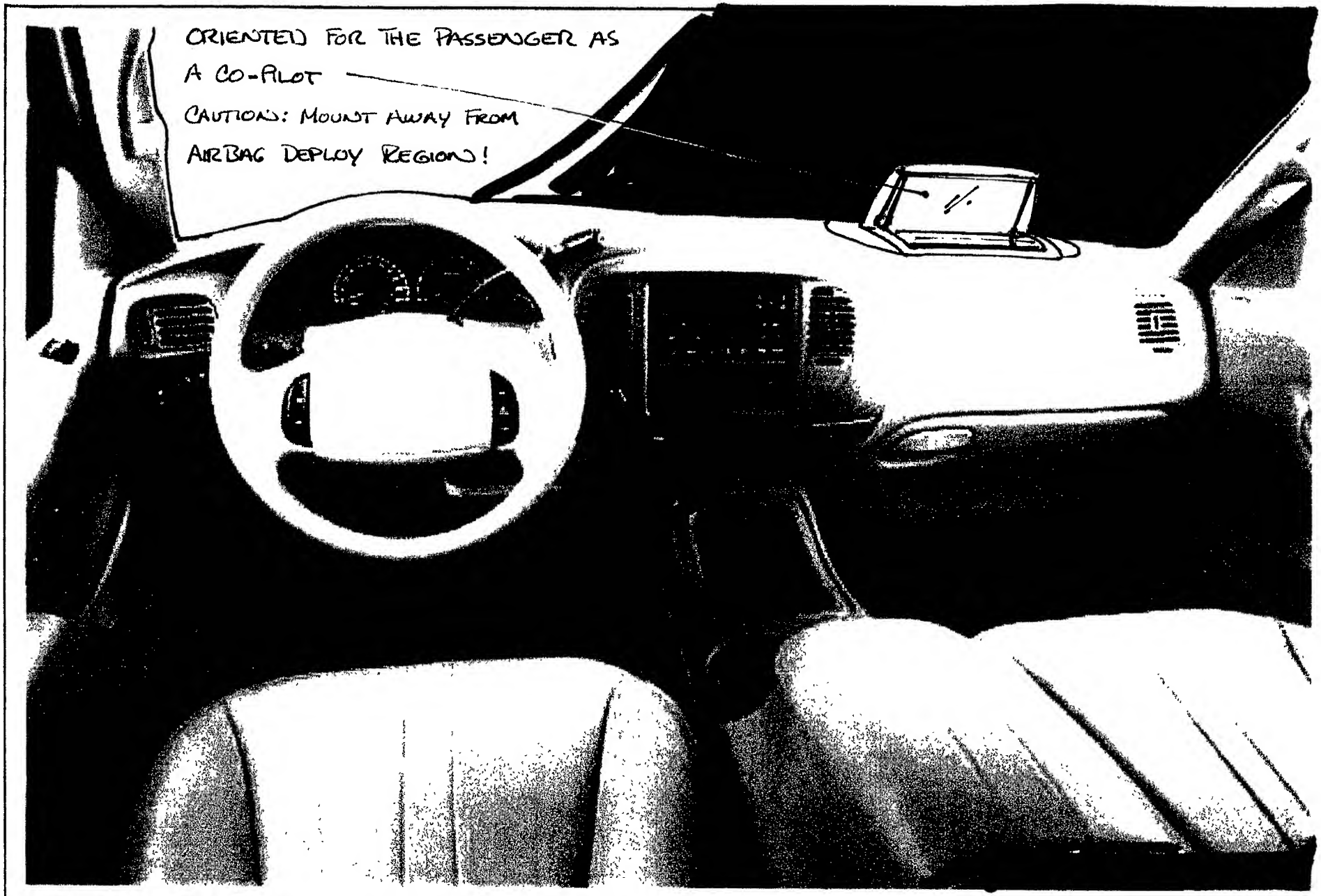
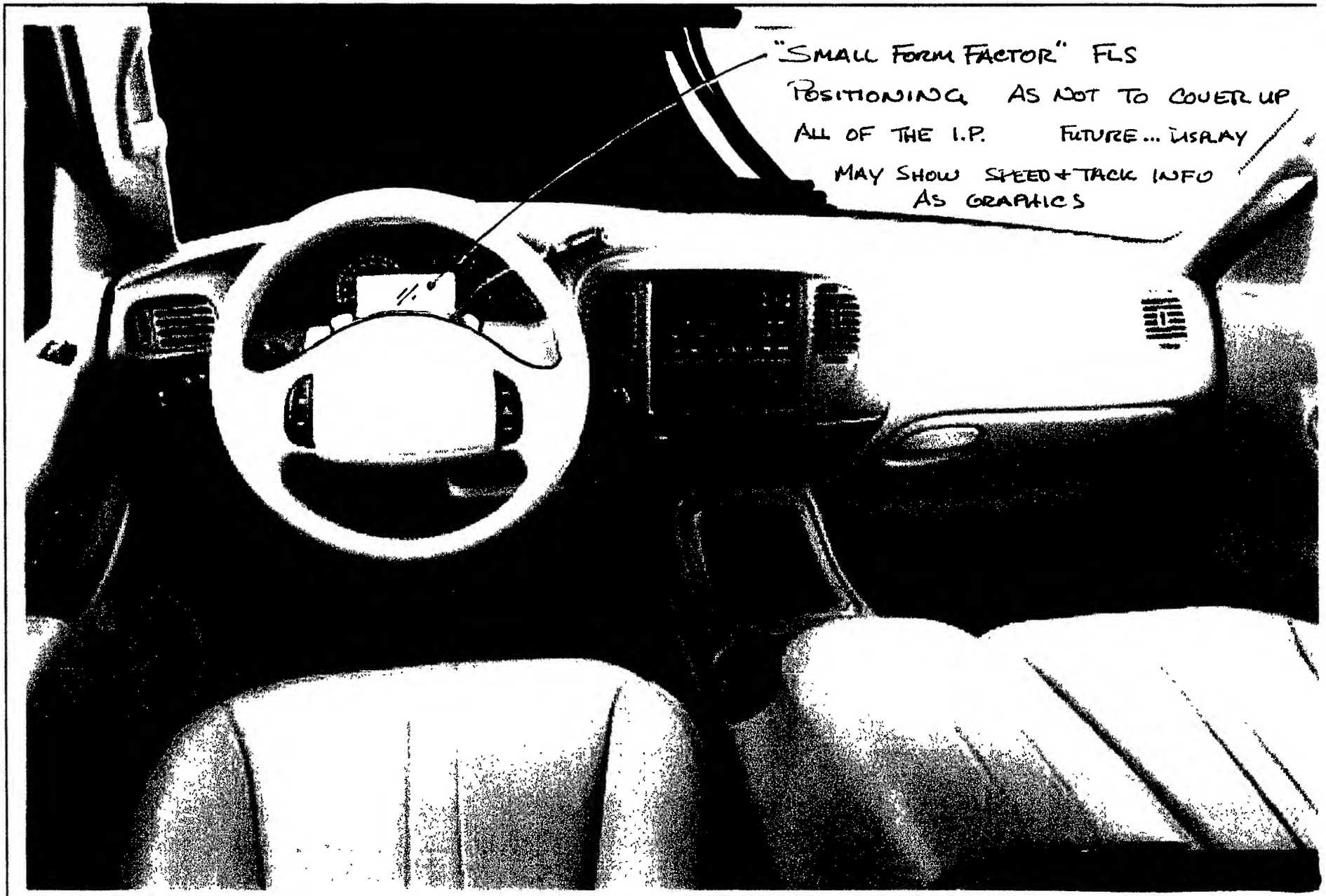
OPTIONAL PASSENGER - FLS MONITOR POSITION

OPT. WITH PRIVACY FILTER-FILM



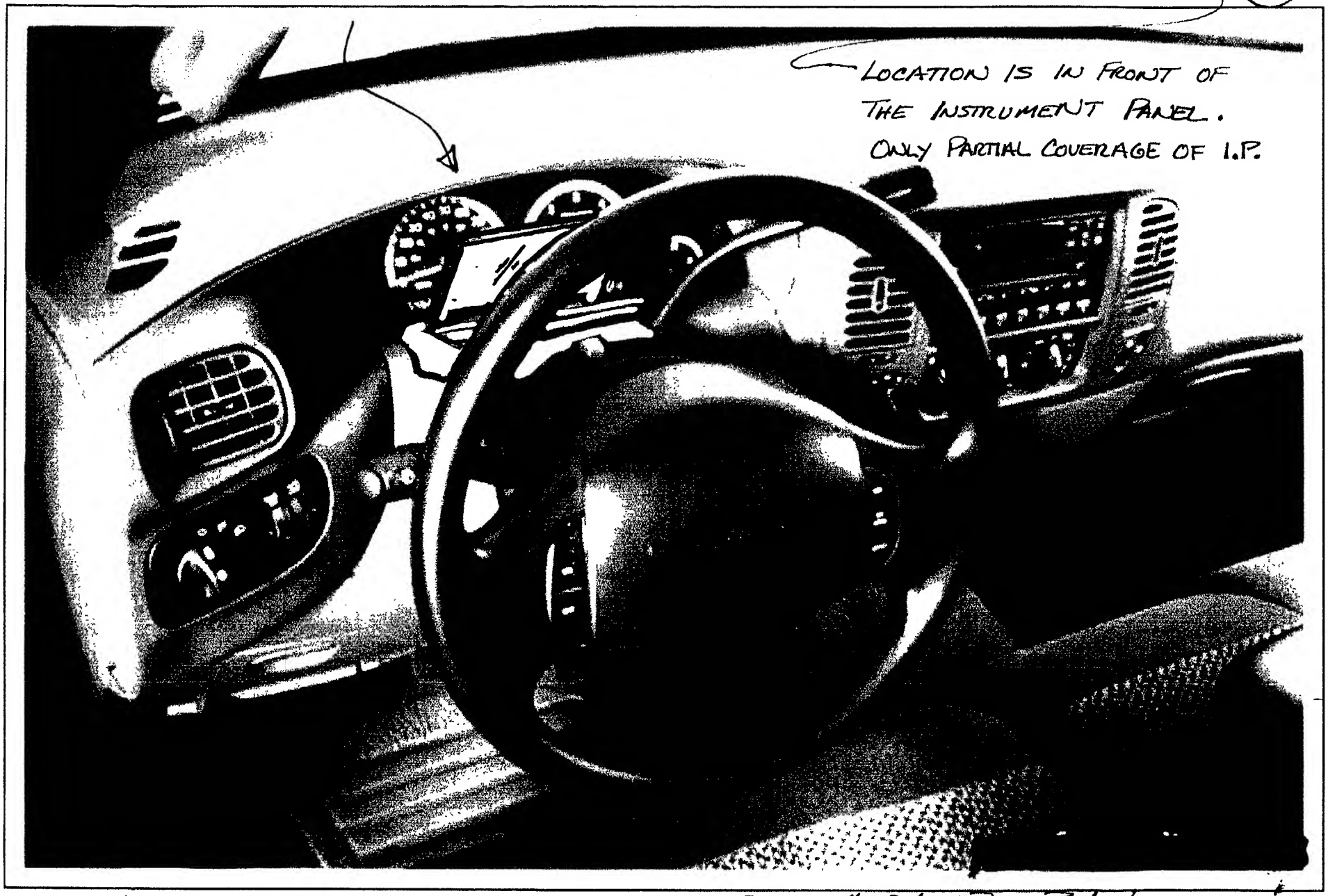
VEHICLE SPECIFIC SHOWN



VEHICLE SPECIFIC SHOWN OR UNIVERSAL POD

M.O. Sykes @ Bosch Products 01.29.01

"SMALL FORM FACTOR" FLS MONITOR... FOR APPLICATIONS WHERE THE OPTIMUM



VEHICLE SPECIFIC SHOWN OR UNIVERSAL POD M.O. Sykes © Rosen Products 01.29.01

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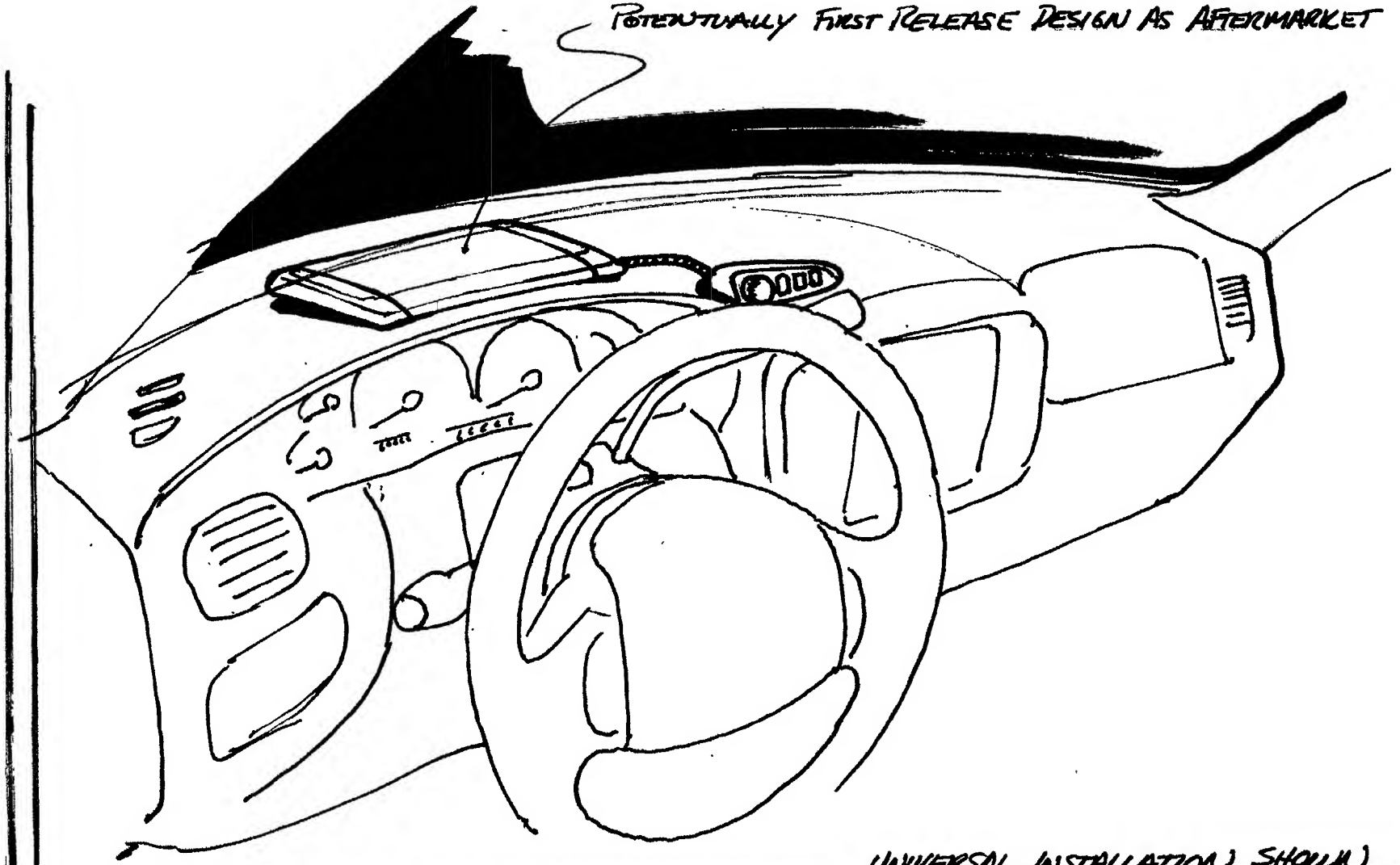
- FLS MONITOR AND CONTROL PODS... SHOWN AS SURFACE MOUNT - "UNIVERSAL"

NOTE: THE EXTRA CONTROL-DRIVE MECHANISM + P.C. BOARDS CAN BE MOUNTED AS ITS OWN POD REMOTELY UNDER THE DASH

POTENTIALLY FIRST RELEASE DESIGN AS AFTERMARKET



UNIVERSAL INSTALLATION SHOWN

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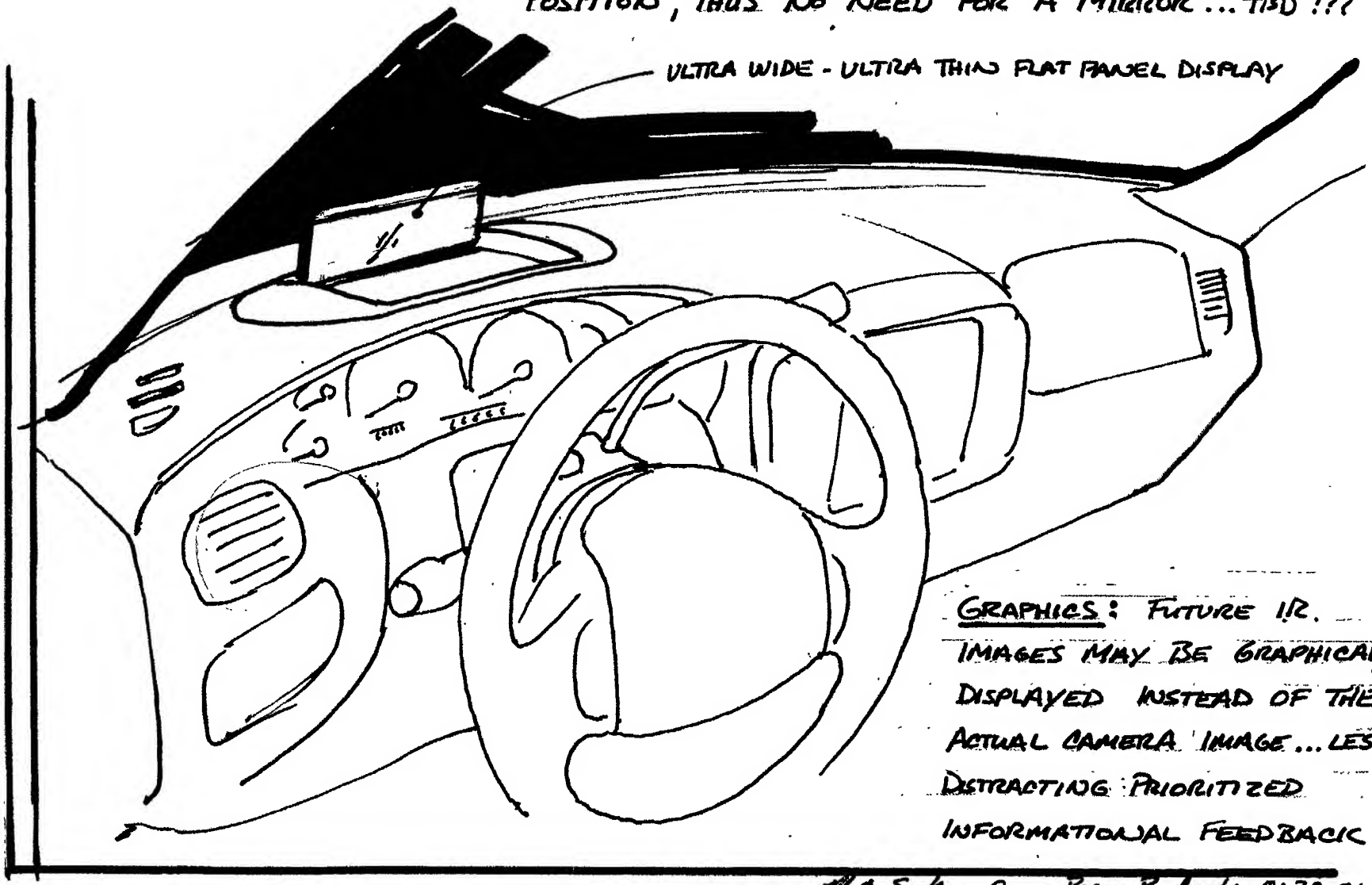
- **A LOOK INTO THE FUTURE — ADDITIONAL PATENT ???**

NEW DISPLAY TECHNOLOGIES THAT MAY ALLOW FOR ULTRA THIN FLAT PANEL DISPLAYS AND POSSIBLY ALLOW FOR CUSTOM SIZES ("ULTRA WIDE FORMAT - PANARAMIC VIEW"). IF THIS IS THE FUTURE THEN IT MAY BE THAT THE DISPLAY ITSELF WILL ROTATE UP TO POSITION, THUS NO NEED FOR A MIRROR ... TBD ???



GRAPHICS: FUTURE I.R. IMAGES MAY BE GRAPHICALY DISPLAYED INSTEAD OF THE ACTUAL CAMERA IMAGE ... LESS DISTRACTING PRIORITIZED INFORMATIONAL FEEDBACK

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